

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24216	54584	A	24354	1	1201	MQPALLIVLNKVRQEARRRAR ACRIRRASGIVQFGKVRRLAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVIIITQRSFRPPG EGRRINDHFRFPAHLPSIRPIGK HQTTPFGISGHHFNFTVAIGDDI AQLDRIGANQSVLKGFNFVV QYATDSMTSQGKGLSQSGVA FDNEKFAYNI/SFNGHMLRILDH G\INWDNDNGTKWWTVGIRPM YKWTPIMSTVMEIGYDNVESQ RTGDKNNQYKITLAQQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTGADNANANFGKAVP ADFNGGSFG\RGDSDEWTFGAQ MEIWGLSRASGTLVTRAWRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQKVQLQNANWP KYSLSLTFHFPFSKSC
24217	54585	A	24355	188	406	FIRSFDPSPVPSVLDRFFVLSTVF HSSSIFLVVIDRPSCVGEPSLF*V GGSCPTNSLYRCGLAWYLMR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLV TW MNNQVRGELT KLANGAHTFKYAPEWLASRYA RPLSLSLPLQRGNITSDAVFNFF DNLLPDRTIVRDRIVKRYHAKS RQPFDLLSEIGRDSVGAVTLIPE DETQHHYESLTITDEGEFVVVFV GPSGCGKSTLLRMIALETITTG DLFIGEKRMNDTPPAERGVM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSRRICWI ANRKRSPVVSVS VWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYVVH AHTLMRMTEGWAGFDILRPYR WRRVIAFVVAFYFRHLIALLVV QMHFKL VKGNVDVVF TAQLID STVQLIDSTTTVTQFTHIQTQLM IQRAGTKCRKEDFRHWFVHHP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAEFFDGRGYIQEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGTRKPCGYVT TAPAARSYRLTSKFIAVGQKAL SSLNIIHIAAPHLEALIIGESDTK NFASHDHAILIYKLEPTTGMLR TRAYIGQHMPLYCSAMGKIYM AFGHPDYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPYAVSISLSTSRLKQ/PRQH RFRLRERQPAGGTPPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNIYTQHDLTTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESLLEQRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFA RLKGITRKIGRLQSRRRKR CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLF S FMK TAHTILLQGIRQFLPSLFVDNDE EIVEYAVKPLLAQSGQIDDIDV ALRLIYALGKMDKWLYADITH FSQFWHYLNEQDETPGFADDM TWDFISNVNSITRNAMLYDALK AMKFADFSVWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATATSSGFG YMHY/CLNSDAIALGIEQRPDLI LLGGDYVLFDMSLNSSAYS LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKSAVITGMLNQ ATVIAYANRPFELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDMLGSHTHR WQLSVPMAGEPFCHVADERYV LGLNAFCERHIYTIPRGGKRIPQ TFAADLPGKGITVNPVQSTITEE TFQTLVSRALEKLGTYVNKPS EVDYNVGYTSLASGDATFTAV NWTPLHDNMYEAAGGDKKFFY REGVVFVNGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVDNTG DGKADLTGCNPGLGFEAINH QLGAYELTNTVTHN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DVDVKPAGCMISRRNELPYTLG LRIDMLVDLGTASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRQRPVIGLNQPQ YQSGTIEVDNVSFAYRDDYLV KNINLSVPSRNFVALVGHTGSG KSTLASLLMGYYPLTEGEIRLD GRPLSSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARMSDGI IYTPLGEQGNLSVGQKQLLAL ARVLVETPQILILDEATASIDSG TEQAIQHALRRDCSPLIDHCDA DTILVLHRGQAVEQGTHQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLVTVII KPFKLEDVREALSSIGIQGLTVT EVKGFGRQKGHAELYRGAEYS VNFLPKAA YTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNP SRLP PRRRHLASGRSLRFNCCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	



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24243	54611	A	24381	1	2208	MLLVASVSNAMSISGQAGKEY TNIGVGFGTETTGLALSGNWITH NDDGDVAGVGLGLNLPLGPL MATVGGKGVYTNPNYGDGY AAAVGGGLQWKIGNSFRLFGE YYYSPDSLSSGIQSYEEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPAYAVG EGVATHGLQFELMRTTGGNTQ HVFHHPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFTVFQ QQNGIEANFIAFPGRSGGSA LGRNVFGFRYQPQCQDKQYV QSRIHPEGVGVTQRVEHGQERC ANDHVQSSGTELMQEGVMSAS LKNQQGFSLEPVMMLAMVLMV MIVTALSGFQRTLMNSLASRNQ YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRDLVL EALMEFIVERERLDDPFEPMIL VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLPEI PKESAFNKQSMSWKLMTLLPQ LLEREDFTLLRHYLTDDSDKRK LFQLSSKAADLFDQYLVYRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTILVLHRG QAVEQGTHQQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSPLIDHCDADTILVLHRGQA VEQGTHQQLLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLVTVIIKPKLEDVREAL SSIGIQGLTVTEVKGFGRQKGH AELYRGAEYSVNFLPKAAYTG KIGDG/KIFVAELQRVIRIRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPSRLPPRRHLASGR SLRFNCCTAGDETCARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSFSTVLTSCSLSRF SFLAHLRQYLLRVAEPLPNSDR RGSMKLVTVIIKPKLEDVREA LSSIGIQGLTVTEVKGFGRQKG HAELYRGAEYSVNFLPKVKIDV AIADDQLDEVIDIVSKAAYTGKI GDGKIFVAELQRVIRIRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTD RCCRNWLEDHADNHCHKHSEV MPCLRRHTVGD RDKKHDTHH HQWGQ*FPYIIFWLVSPLAISRS KVSTHGLRQRDFILLREASQSF RFVLRVYDVADHIAGKFTVHD LQFIGYHGGQAQLVAQVFSKES KAAGGNRHFPARFQLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGTAQVLNRRIKISRST*L TVVMGYWSIIPSVSLLKWDRR KSPKCSSLRVNISNTLLSTARR RKRYLIVIPALLVRRRCRPRGPS ACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAP MLMPLFLDQLILQCFFW/W/TN LERA*TSFSALFIDLQPPGYRTT TSKHKVSSSLIKGHVLLDHSFH DLNTQLWISTNAFRFGN
24253	54621	A	24391	1476	1751	ALLVVSFASQRFISA/TVGNQNA GVDLLNLTLVGGIFVLNNAGN FAVFTGDTSTIGRIIQFHRQQTN ATLRFSTQTLECFDRDQRHVA VEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLEFRL NAYRAWLEMEEPHWLKAHYD KLNYQDYSYYSAPSCGNCDDT CASEPGAVQQTGANAFLSKEV EAAFEQLGVPVREGKEVAVDI FDSVSVATTYREKLAEQGIIFCS FGEAIHDHPELVRKYLGTVPVPG NDNFFAALNAVASDGTFIYVP KGVRCPELSTYFRINAECTGQ FERTILVADEDSYAAKRLTDYP HQLSGGERQRMAMALLTRP ELLIADPTTALDVSQV
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVK SITRESWILSTFPEW G SWLN EEEIEQE QVAPGTFAMW WLGCTGIWLKSEGGTNVCVDF WCGTGKQSHGNPLMKQGHQM QRMAGVKKLQPNLRTTFFVLD PFAIRQIDAVLATHDHDNDHIDV NVAAAVMQNCADDVPPFIGPKT CVDSWIGWGVPKERCIVVKPG DVVQVTALEIHAPDAFDR TAPI TWLADQKRRRTVKGR TTRPCN RSVTVRPRRRDAVIGRFYRHQS ITQKGLLLMVMPGCAFLWIDS ELNLT FIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQNLFIG GLGVIVLAVAVLPLLIGIGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTV DNLF FIRCRT
24257	54625	A	24395	49	281	ASDHRYLCSQSVPLRGIPACYL LQAPLTRWR/RIPPSRRICAAIDS AISRSPQRWLTAVCCGTVNFTN TCLLPDGVCA
24258	54626	A	24396	737	1419	CIWRMYSHRLVAWRRCVKRR/ RYLTRFAKTRGVAIVMVGHVT KDGLAGPKVLEHCIDCSVLLD GDADSRFRTLRSKHNRF GAVN ELGVFAMTEQGLREVSNPRGR GKRKFISPKKTPALAKFRNLL PPKVPGNGTSVRFRHSRICWMN PLPGAAWNCILTLKKPISPGVQ VPESFTPARLEAFAGRSQACL VPAQNILHQKSQAWLDFDPEQE KELRELSAWMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA\ LCVKETRQIVRDPSSWLI AVVIP LLLLFIFGYGINLDSSKLRVGIFL EQRSEAALDF\THTMTGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNTANFVQGYVEGIWQI WQMQR AEDNGQTFEPLIDVQT RYWFNPAAISQHFIPGAVTIIM TVIGAILTSLVVAREWERTME ALLSTEITRT\ELLCKLIP\YYF\ LGMLAM\LLCMLVSVFILGVP YRGSVLILFFISSLFLSTLGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSM PAVIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVFLIASAVMFI GLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSL CCQEGLAFAVNLQHFVRVQTIS FFFLPVLRFWRPGIQQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNIRRTLFADGHQI AAQPGLNLSCTRTIF*IKRINTFP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAAICGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNDISAII TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADVK*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSHFHALDRTTAVHRQPVI SATTTVHEFLRCHQFPLVVC DG GRMTPRAMFLFSSAHILMPLNY HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLAIRAEIDQ VKAGVWPLEDNPLVNAPHIQS ELVAEWAHPYSREVAVFPAAL VTGGSRGIGRATALLAQEGYT VAVNYQQNLHAAQEV MNLITQ AGGKAFVLQADISDENQVVAM FTAIDQHDEPLAALVNNAGILF TQCTVENLTAERINRVLSTNVT GYFLCCREAVKRMALKNGGSG GAIVNVSSVASRLGSPGEYVDY AASKGAIDTLTTGLSLEVA AQG IRVNCVRPGFIYTEMHASGGEA GRVDRVKSNIPMQRGGQAE EF AVQTFPVWRVAQHCAVRPFRQ RIGQLRDIFHLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPPIMCSKATVK PLSPSPPGTPDPASVLPFREORA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNSDSETGLQIVASYF EDRNGDS\LALRPEGTAGCVRA GIEHGLLYNQEQLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAELIMLTARW\WRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKELDEDECKRR MYTNPLRVLD SKNPEVQALLN DAPALGDYLD EESREHFAGLC KLLESAGIAYTVNQRLNRYRLS ANLIENNL SLDGEGYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRWLK DGITTPGGKLP SERELGELLGIK RMTLRQALLNLEAESKIFRKDR KGWVFTHPRFNYSPELSASFQR AAIEQGREPF\WGFT EKNRTSDI PETLAPLIAVTPSTEL YRITGWG ALEGHKVFYHETYINPEVAPGF IEQLENHSFSAVWEKCYQKEPV VKKLIFKPVRMPGDISKYL GGS AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQGLQA\EME VLENLQELKDLNQRQAHAESKI FRKDRKGWVFTQPRFNYSPELS ASFQRAAIEQGREPSWGFT EKN RTSDIPETLAPLIAVTPSTEL YRI TGWGALEGHKVFYHETYINPE VAPGFIEQLENHSFSAVWEKCY QKETVVKKLIFKPVRMPGDISK YL GGSAGMPAILIEKHRADQQG NIVQIDIEYWRFEAVDLINLCF MVTINNARKILQRVDTLPLYLH AYAFHLNMRLERVLPADLLDIA SENNLRGVKIHVLDGERFSLGN MDDKELSAFGDKARRLNLDIHI ETSASDKASIDEAVAIALKTGA SSVRFYPRYESNLRDVL SIIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVPLLLQ\AYLYSAFFF TPEFLRPAPPLFSAAVLPEQRQR AQGIGGLVIRPTVELHQALQLF FGHQPKIQSLHALLRGSTGFQA SFRLLPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGRPRIHAPRQARLKPQVK VASKKRNARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLRRRR KQARGTWWRLRHLHLYVQPH KHTSYIYRLYRVTYVMSAQV VDGTIYEFTTRKHDIGTIELPNS EIRYHGPNAMSRPRKTPTPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDIFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENRWRGKILARPLLFRAA *ASRFAGAGMPGRLIPTVRPRN SNSGRLVSASRCAKESLTVTTC TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFSKA AERLCKTTATISYRIKLEENTG VALFFRTTRSVTLTAVGEHLLS QARDWLSWLESMPERAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPRTRRDLVDSAV IVECMFAGRENLTTPHNPLDV LAQQTVAAMDALQVDEWY SRVRAAPWKDLPRRVFDATL DMLSGRYPGDFSAFRPKLVW NRETGILTARPAFAADSDIAD GQTQRFDFSILQSMHDLQSQA WR/GIQYDAEKSLWHNVE\NRQ LDAQFFHMGMGFRRRVRMFVS DPATHLAREIHFRPELFKYND GVDTKQLEGQSDLGFAFRVF KAPELARRDVVSFLGASYFRAV DDTYQYGLSARGLAIDTYTDSK EEFPDFTAFWFDTVKPGATTFT VYALLDSASITGAYKFTIHCEKS QVIMDVENHLYARKDIKQLGIA PMTSMFMPRKNASRLSKRCYDI RERDGREERK
24287	54655	A	24425	157	650	PIRSTCLFKPLITQCFRQFGSE GVNDHLLGILLIDPARAQIEYLF IINTPHRRVAAFHICIDFQLRF RIHFRQFAHQIVVGHLTIRFDG VLRDQVQTVKYRAAFVADDSF VQLSAVTKTFIVFQPGTGITHLV FHRHRQAQ*PFKVPFSRRLRNGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSECKGEIFLKFNMQRTGSFKIRGAFNKLSSLTDAEKRKGVVACSAGNHAQGVSLSCAMLGIDGKVVMPPKGAPKSKVAATCDYSAEVVLHGDNFNDTIAKVSEIVEMEARIFIPPYDDPKVIAGQGTIGLEIMEDLYDVDNVVPIGGGGGLIAGIAVAIKSINPTIRVIGVQSENVHGMAASFHSGEITTHRTTGTADGCDVSRPGNLTYEIVRELVDIVLVSEDEIRNSMIALIQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHPASANYKSNTRRLPFAREQ/QDQHTLLAGTLFIAKILIPMQIAQSAAYRRRCPPDAQLHFLPLQLAPRGHRYKRVCCQVRYPPHIALIPVVFRLMNDANGLSQPADAGLAHHEMRNFLDFASSNVAASRRRCVAALPCATGKGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTTQPHTKEEEPLSTPTQTKHPPHTVGTGPHPTPASGQTEKHERKRPTQQKS NARQNSKDKRTPNKSKTTPN RGYNQHPAGEPTMSTHEKVKP HQQNRKIQAPPKRQKTDHRHT HNTHPHPPHRAASTTTQAAPPPRRATRSGTSATAHNNTPEPHGTRHTQPGDCHKRAEEHRTADEPTPPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWRPGSANCR LV*GASGTDPRLYSPCAAAADD CGRRQNAGRRTATSGD*SPHR RWENALLFDSRHRHCPRRAKN AGGEYRQRGIAGSDLQQRFTA AEKDHRS

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24294	54662	A	24432	1	1931	MGTLLGTLTVLTLVAEELPAET DVAADPAASPTCTAVNQTIGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRELSEQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPPIHLLDTCWPLTVDEH ANRSSIGNNNISFVVRNAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLDTDGLRIGDGHGA LVIHRCVAGDINTVTAAADM DLEDPRIISARFGVPRQTQVRTW VALYEKHGEEKGLIPKPKGV SAD PECVLGRESCDRAAHVPYQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK AAEIPRSTFYHHLKALSKPDKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKA VQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVNGR KLYLSPVIDLFNNEVISYSLSER PVMNMRRSRPGVGYFYALTPV YLANRLQALLGVEQ/HHPDGEL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	



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24297	54665	A	24435	1298	2649	TFITRPTSNGTSIFKLMNRRRLE GGNVATLR/RLTIGMIFQDHHL LMDRTVYDNVAIPLIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEEFN RVGVTVLMATHDINL ISRRSYRMLTSDGHLHGGFGG RLDRFRKSVGGSGDGGRNAPK RAKSSPKPVNRKTNVFNEQVR YAFHGALQDLKSKPFATFLT MVIAISLTLPSCYMYKNNVQ AATQYYPSPQITVYLQKTLDDD AAAGDPDRPSLQLRWVRVPGFS IAVAIYFLNESLGRPLMITGYSA ECSLLAWPVRSLRKAPMKTFP LQSLTIEAQKQFALVDSICRH FPGSEFLTGGDLGLTPATELKPR RLPSGVEQVLADAFHAQAAAL VQGAGTGAIAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGLPM LLNLQSMGAS/WYLSPVIDLFN NEVISYSLSERPVMNMDHLL MDRTVYDNVAIPLIAGASGDD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVNKPAVLL ADEPTGNLDDALSEGILRLFEEF NRVGVTVLMATHDINLISRRSY RMLTSDGHLHGGFGGRLDRF RKSVGGSGDGGRNAPKRAKSS PKPVNRKTNVFNEQVRYAFHG ALQDLKSKPFATFLTMVIAISL TLPTSCYMYNIAKSERISDIST QLNAFPGCEVAVSDAPSGQLIV VVEAEDSETLIQTIESVRNVEGV LAVSLVYHQEEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFSWAVMSNLTYL QGYPEQLLSQVRTLINEQRLGD VLAKRYPGTHDYATDKALWQ YTQDLKNQFLRNAPPINKVMY DNKIHVLKNALGLHTAVSRVQ GGKLKAKVEIRVATVFRNAPE PFLRMIVVHELAKLKEKEHNK AFYQLCCHMEPQYHQLEFDTR LCNRIRLNGHDHFRRRYALFRV NTGRTASPIQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKLMEHISIIPDYRQAWKV EHKLS DILLLTICAVISGAEGWE DIEDFGETHPDFLKQYGFENG IPVHDTIARVVSICPAKFHESFI NWMLDYHSSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAPE LLNMLDIKGKIKTDAMGCQKD IAEKIQKQGGAVMNLQRFDDST LIRIFALHELHRLKEHGLTRGAL LDYHSRYKL VFL\AHPQPESRK LGPF\VADIHQWQNLDDYSPOY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQLRAL IDSYRRGEQPLLA PLMRIKHYM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFRR KNNRGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVVSR GELVEIGGAFRIPDVMRQAGCT LHEVGTTNRTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPVVTDLG SGSLVDLSQYGLPKPMPHELI AAGVSLVSFSGDKLLGGPQAGI IVGKKEMIALRLQSHPLKRALRA DKMTLAALEATRLRLYLHPEALS EKLPTRLRLTRSAEVIQIQARQL QDPLAAHYGAFAVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSQLESLADRWRELPVPVI GRIYDERLWDLRCLEDEQRFL
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQKRYGMVGD PVIIGVVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPTTIAVGLLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELSLGIIGRVVAVGIVA SVVLFRLVLSMSWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMLALQNGG VDAVMFSNEFSLPYLTKVRPET TAAMARIIGQLMSDIRIPFGVNV LWDPVASFDLAMATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNNHPDA LCVSGLTAGTRTDSALLKRVKE TVPDTVVLANTGVCLNVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAFAVKSIDG DRYQINPNRHGVNDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSPCCRWSKDRAAPSPA YSRLSSHVIIAGYVGGGVARG\ HSWVFVALTLLTAVLFLSLAGL LNGVFAKTFDDISLVPTFVLTP TYLGGVFYSLTLLPPFWQGLSH LNPIVYMISGFRYGFPLNHNH PGVAVDINRLLLPRKQEKLGK LDKDQLIAGVQDAFADKSKLS DQEIEQTLQAFEARVKSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALLL E/SPLVAESSDG*EPMTNATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRRAIAETTE AGLLGKNIMGTGDFELFVHTG AGRYICGEETPPLLPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDGQQKLLDSQV LIIGLGGLGTPAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRSLWGLCR YGHKEQYDHIRIELNLAPGDTT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLIDSDY QQQLMISVWNRGQDSFTIQPGE RIAQMIFVPVVQAEFNLVEDFD ATDRGEGGFHSGRVFCNMAE KQTAKRNRREEILQSLALMLES SDGSQRITTAKLAASVGVSEAA LYRHFPSTKTRMFDSLIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLQGRINQLFERIEAQLRQ VLREKRMREGEGYTTDETLLA SQILAFCEGMLSRFVRSEFKYRP TDDFDARWPLIAA\SCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATRGKSRRDLDPVQ NSARQYG/WI/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDYRWRAASQLPAQYQDLTSI YDVYTVPDRVAKRAFKSPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVGIRPEYLDRLHLAFSG GQRQRIAIARALSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTYVLISHNVSVIRHMSDRV AVMYLGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRELSLPA ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIQEV LEASDIPYRHDRQLLHNALEKA LQALGGLEVIQLYRRDSNLVPG QLLKTSEMKGKTRLYAADSRLIA AKGSPIQPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPKLLCQGTR *RGGVVGGISQASVTSVIGYSA SCQPTPAIMQLHL/ANAASRRL QPDRNRPNPGWHRPPIHAFTTP GLVSVSFLGYPCSTPTCLPFSES SVGESVNLWPQSNENLRRTL GEGNLLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPASVCT LVTEIDIKANKITFSIFDENAGA WLPPFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCITRGMRL LLKLSVHAATRSTLQQASHGH CAWSAPGWLDTSGMDGDLW WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RQRRYLRCADHRRR AVRNQQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRKCRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPHLLL SKRPKISLNA YFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSSLAASCDV FVHSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEGM REWREERGQGVVHKPIPGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTRKPARTI ETLSPLLAILAFAPKLAICTRSPL L/DDMTPFTQCTNAYSHSGIRNP TAISSAAYPRRITGY/KLGPTGE ERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVAVSID AAVALGNTINEMDKYYTQENY KDDAFAGKTLHQTLKLNLEA FEPVAESYHAAIQEINDKRQLA ELKNIEEREGKTFHYSLAVMI SAKQINNLSQDKFDAEAMKK VSELETLVAQAKEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNEMLMTRIGG GAGDQDMVNDFSYPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYYVVNRFGKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSESK VIIMDEPTDALTDTEAESLFRVI REMKSQAPRYCLYLPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDP RRAGRLRDV*PL HE*YRHWHDQS/RLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSAVMSSQTGL INIVRRGLLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQAGLTLRRAGIRQP DMAVQRDHLPPRVAGVIRHIM LMLHSQRRRTGLLITAKNRLFF QRRSVPKFHSKLNQAYCLIAAT DCPRRLLLICRYPHHFLHQLIIL AIGIGSAVFEPHQIIGVSRCCPR HLGVERVLFLFLNDFIEQVIIRC HVVCQSAPAAANIQYAHWPWF* LQFFTNNHFELRLLGRFQIIGIFPV SAGILHEGIKHAAEQVITQIVML FADYPGTFFTL/RD*RDERRQY AACL*NDGGVGSRDRLVRRLC* KTYPVGHIPTSHYPN/CSPNPKE PSCRTRLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDSAAKE VLLWFRFVLLKQTLNWTTK NVTSLWRTLGSPPGVKEVRAW TIPV/VSNRAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGTDHQAADNIPDHMMY KSIRFNIYHHIRTVTRDINMHN APRGSGLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVAITASRGA KSGMKIIRYSFNPTHSDVTR*IRI YAQGPRRVFAQRGCFEMHNLP GTVYPCVSTPGAEDGDGFVRH LGERLFQLLLHTADFLPLPAVI LTGGVLNAQRNFNRRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGRPRRPYQAEDRSLD FVDALNRKILKDSIFHALQTIM VGKDFLRLTQVFFDLATRIPRH LYHPVDITTHYGRFCRHRHHF QLLQLCFRFLFCLFRHLRRVDF ALQGFVVRVVFHTEFFLNSF HLLVQIVLTLGFLHLLFNAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVIFRSDVL EHPHRNNTIKLVVQVTIILQQN GDIQAFTAFLSHLLFGRNGDA HHAYVIIRCHVVCQSAPAAANI QYAHWPWF*LQFFTNNHFELRLLG RFQIIGIFPVSAGILHEGIKHAAE QVITQIVMLFADYPGTFFTLQIE ETSAGNTQRFEMMGELVLET RLRSPAGFTQWIPHQGCWWSCL PVPRGTLALLSPWVVDGTGRR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVEKATIV YRRSLQEMPAWREEYEEALHD GFRFLNNPERFDADGTLTLRVM SLGEPDEKGRRRPVETNETVTL LVDSLITAIGEQQDTEALNAMG VPLDKNGWPDVDHNGETRLTD VFMIGDVQRGPSSIVA AVGTAR RATDAILSRENIRSHQNDKYWN NVNPAEIYQRKGDISITLVNSDD RDAFVAQEAARCLECNYVCSK CV\DVCPNRANVSIAVPGFQNR FQTLHLEA\YCNECGNCAQFCP WNGKPYKDKITVFSLAQDFDN SSNPGFLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFPERHCDHLSANNSRNKLLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPD AHYREPCQ YNCTRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAGGVVKNI VPQFRIPAELIQHDIDFVA AHGV KFEYGCSPDLTIEQLKNQGFHY VLIATGTDKNSGVKLAGDNQN VWKS L PFLREYNKGTALKLGK HVVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEYEEALHDGVEFRFLNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWRQKWSAGSP ARHPV/SQSTTDTPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRVKPA*ISEPE VGPIILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAAQPQDKP YKLTDSLTPGLFLLVHPNGSKY WRFYWL NKREFLQAIGVYPLI TLKEARRRATESRSLIANGINPV EQARKEKAIDALNMAAGFKKV AEDWFATRVGGWSESYAKQV RSALEKDVYPVLGKRSIVDITA RDVLALLQKKERTAPEQARNV\ AGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRHILSLLRSPICASPLTV



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24374	54742	A	24512	746	2387	WTALPARLKQIRSGRKLPLTVM PALRETDTFDTFMESWYYAR YTCPQYKEGMLDSEAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPVLCNLFGTPKR VAMGMGQEDVSALREVGKLL AFLKEPEPPKGFRDLFDKLPQF KQVLNMPTKRLRGAPCQQKIV SGDDVDLNRIPIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIMRWLSHRGG\A LDYQEWCAHPGERFP\VSVAL GAVPATILGAVTPVP\DTLSEYA FAGLLRGTKTEVVKCISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYNEVDSFPVFTVTHIT QREDAIYHSTYTGRPPDEPAVL GVALNEVFVPILQKQFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMGVWSFLRQFMYTKF VIVCDDVDNARDWNDVIWAIT TRMDPARDTVLENTPIDYLDLDF ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKKDPDVVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEPATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSDDLQTGRV GDEARHRKRGLHVPQPRSEPPV GARGFPYRFATRWR
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGAVAIHQHRNQLLTGAL GIFAVAVCCLQQRLDILLADHL AEHVQFVIAQFVTCQQHGNGV RNRTIIFLLFNELRKIVETVRVQ QTQTGEVAFHPQLFRGRVVYG PDLNARRGNGVINCSLTEDPQF GLILFVYTIGIQVGPFFASLRV SGLRLNLFVAVLIVHGGVLTAIL HKLFDIPLPVVLGIFSGAVTNTTP ALGAGQQILRDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAAQHESST NGGALIKTINIRVENPNLHDLAI KDVPIIINGDKIICSRLKREETLK VSPDTIQLGDLHLHDSRGSPL DTQDIDLQINSSVEKQFGDAIRT TILDVLARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMFLVPG ANAAMVNNSFIYPADALMFDL EDSVALREKDTARRMVYHALQ HPLYRDIETIVRVNALDSEWGV NDLEAVVRGGADVRLTKTDT AQDVLDEK\EILRIEKACGREP GSTGLLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNLRT RSPEGTELLSARCPWQAARSA GIQAFDTVYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKS KLWQVVMGLAYLTPMTVFD TFGIVSGISDGHVPASYLLALAG VLFTAISYGKLVRFPEAGSAY TYAQKSINPHVGFVMGVSSLL DCLLAVVIAAIYVGFSLAGFHV YIGMLFVPGANAAMVSNSFIYP ADALMFDLEDSVALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRGGAD VVRLPKTDTAQDVLDEKEILRI EKACGREPGSTGLLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTSPEGTELLFARCSIL QAARSAGIQAFDTVYSDANNE AGFLQEAAHIKQLGFDGKSLIN PRQIDLLHNLAPTQKEVDHAR RVVEAAEAAAAREGLGVVSLN GKMVDGPVIDRARLVLSRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSWR/CMSCILTSWITT MFPI*RLGQWC*NPCVTMAL/L APIDVHLMVKPVDRIVPDFAAA GASITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPFGGGQS FIPQTLDKLREVRRRIDESGFDI RLEVDDGGVKVNNIGEIAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDLDGTL VDSAPGLAAAVDMALYALELP VAGEERVITWIGNADVLMER ALTWARQERATQRKTMGKPPV DDDIPAEQVRILRKLFDRYYG EVAEEGTFLPHVADTLGALQA KGLPLGLVTNKPTPFVAPLLEA LDIAKYFSVVIGGDDVQNKKPH PDPLLLVAERMGIAPQQMLFVG DSRNDIQAAKAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLVNKLVNAGD YKFKQIASEKLLIVTSTQGEGE PPEEAVLHKFLFSKKAPKLEN TAFVAVSLGDSSYEFCQSGKD FDSKLAELGGERLLDRVDADV EYQAAASEWRARVVDALKSRA PVAAPSQSVATGAVNEHTSPY SKDAPLVAWRLPNVEGRARAG GASSFLADRVEEEGEVRFIEH NDNFRLPANPETPVIMIGPGTGI APFRAFMMQRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSRYRLSC GFYACQSLVLVS/IFPTLSCLFA AEQLLIWSASAFITKVLLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLPM ATGLKPALAVALGHFLLGLLCI VSQRNLRQIFGYCLMENSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTLDL TPLLFSLLCFACRKRRLSATRTV TVLHSLGITLLLILALWVVQTA ADAGEIFAAGLWLHIDGLGGLF LAILGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFFHLFLF TMLLVVTSNNLIVMWAAIEAT TLSSAFLVGIYQQRSSLEAAWK YIIICTVRVAFGLFGTVLVYANA ASVMPQAEMAIFWSE

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24387	54755	A	24525	1	757	RWRLPGVPPFNGFFSKFPLFAP GFALSVEYWILLPAMILLMIESV ASFAWFIRWFGRVVPGKPSEAV ADAAPLPGSMRLVLIVLIVMSLI SSVIAATWLHVKSRYRLSCGFYA CQSLVLVSIFATLSCLFAAEQLL IWSASAFITKVLLVPLIMTYAAR NIPQNIPEKALFGPAMMALLA ALIVLLCAFVVQPVKLPMATGL KPAL/AGLATDAIFAVIVMVLL ARHIWRTHGTLDVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALYPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDFLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSKFNK RGFNQVLPKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKT V NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLLER/VSGFFAHANKF PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHHTTRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGLGTDMMKASAIVTN VAVVLSGRYRRERASGEWAAL SFLRPHTLTVFVPHIQWDDPQ MSRP\SGRHLFRCTVQRKHAL QVVEKFRPFFPSDRYRYGAPGD YAQSFGGQIDDVVKAIQTPSKF RRFLRVSD*IRLPILHSGKSPLR RMPNLMRRHSHTARHPALGT RGPQPTDRQERPAVASGQ

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQIRQWIIDTPFQPEL ENAIREAYAQLSADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNKDVIELPDNQYDLDK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANYEYRIGIGDV LMVTVWDHPELTTPAGQYRSA SDTGNWVNADGAIFYPYIGRLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAAFR\SKAYV\TA EVSKSGQQPITNIPLTIMDAINA AGGLTADADWRNVVLTQNGV KTKVNLYALMQRGDLRQNKLL HPGDILFIPRNDDLKVFVMGEV GKQSTLKMDRSGMTLAEALGN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVYVTTAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGVPGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPQGSSSLVEIAHTQGGPL MGKRCYCGNHGCLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLQCAALRGDLLAKDIITG VGAHVGRILAIMVNLFPQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHISVESTQFSNQGTM
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLS\LFDVDG RFVLAWMLFQGSYLAGALGDQ PVHIHLGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGIK GTEMSADIAKAFNLDVQRGAF VSEVLPGSGSAKAGVKAGDIIT SLNGKPLNSFAELRSRIATTEPG TKVKLGLLRNGKPLEVEVTLDT STSSASAEMITPALEGATLSDG QLKDGGKGKIDEVVKGSPAAQ AGLQKDDVIIGVNRDRVNSIAE MRKVLAAKPAIALQIFPVDHR GAIGGQTTDIPDPSPGINHDRC MKGLSFAGEMVTTYTNTAHRRA FTNQPRDFMSVAWLKGIAILP SVGEVRSPVAGRIASLFATLHAI GIESDDGVEILIHVGIDTVKLDG QIFSAHVNGEAGLKRVVKEH AD/VQRHAESV*RRGQAQGT GIRRQDNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAF DRSLPINATSARPSSTSTRHSAE SSISRDCVSNVS/HSGG*TGGIK G*CHAHPADLTACHEADSRGSP SHAVAAVALHVID/GWYLGDDQ TAAYATGSAVSCPSSGNQFSRP SAAGRFSASAPQGAQRHPGR ARRRPRRRRTAGGCRR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFI KLHRDASVINHPLAE/TRK*YPV SVYHLRHPPAIR*PAIRDNA**I LPVTPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI* PVVSIAFQSGKILALGAENI ATTSDRRAQRQKAVCKAHDAS SVSFRTLSVRPTNDPCP
24408	54776	A	24546	332	1047	RTRPYCPGMGNEPMTGWMAA AVVTLMIRMCFSVYTMLSESC QRMVIVGYGRCFADRQNL MVC LRMPNVFTGSCARMRCCLSEN LLYRHRNGHIQAEWP*KKAISD VKQYRTSCWERWNAASATIFR/ LSPVEWLTNGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDIYISIMPKPDGLT AAKNLAFAFEHYNEWHPHSAL GYRSPREYLRQRACNGLSDNR CLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLW YWIYPAFPPIRRVKVAYREYRP PTTPRVQRDLTFCHRPAIPDR MHRY*SSHRALPGCWSKVPAQ KSSRTVSGTD*VDLLSPRAQRA PSPLQG

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24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLNPLQA RCRRYSRGER
24412	54780	A	24550	1	532	MKTLIIIDANLGTRLYGEDPAG AAARKAKLEIIDNPDAEMAIV LGDSIPNDSALNGKNVWLGDIS RAVAHPELFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLKPKRKN VAGIPDTGQYCETVQTSCW/AA VETPLRQRSSVVS SGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAISDGALTGSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLT DNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRHGLVSFISSLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENGYAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSDSAHFAQP EYAAFSRFRPGSFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GGRRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRSRWTAVIVRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVEWLT DNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRISIPSISWMTRGSL RRVMLLCPPSESGTVSEKAWP EWSSFSSPPSCRTSASSPPSHLR /NIDVSPKHVVFATIPRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVITIGGSSYTPELLE GFIKRYHELPPVSELWLVDVEGG KPKLDIIFDLCQRMIDNAGVPM KLYKTLDRREALKDADFVTTQ LRVGQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRTLDTTGSTSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRQRACNGLSD NRCLEIYGQIQLGTGELNITTGV VVTARDTHIALNFQKRRTTGLA TQSRQRCQNRRRVMGKIVYRD AIRFTTQLQTATSINKRTQRVSG ICRRYTNMASRCNRHQAIVHIM FAYQRPFFFAHFFAIQNFPPGS IGGQLFRLPVTLLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVELFLDRFQVVKDIG VIELKVVEDQRTAVMNKFR FVEKGAVILIRFDKKKIDIFLQYR FHTRISTGHGVANNHQIRLRLE LAGIVPLNQLNPLPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEAIRMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDITLAMDCAASEFYKDGK YVLAGEGNKAFSTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLGDKIQLVGDDLFVT NTKILKEGIEKGIANSILIKFKAQ HAGLLHMYTCAMLGVGGQCW RYCMSQAFKEDRFAQDQRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	



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24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGELFTG YVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSARPSEAELLELIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVDGFHPYNVGRLCQR APRLRPCTPRGIVTLRLRYNIDT FGLNAVVGASNIVGRPMSMEL LLAGCTTTVTHRFTKNLRHHVE NADLLIVAVGKPGFIPGDWIK GAIVIDVGINRLNGKVVGDVV FEDAAKRASYITPVPGGVGPMT VATLIENTLQAMSNMATFSLGK HPHVELCDLLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTITKDGVSVA REIELEDKFENMGAMVKEVA SKANDAAGDGTATVLAQAI TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQGISR EATEKAMRECDIDWCA**RF*S DKHHHRT*RQ/PTRHRYPD PGSHNHRSAHALSSAQGYILLP RAVLSGWRWFENVHPTPGYPAG SGSVFVPPMTPSRRLPAPDNFA APHYRVLKTGLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLES HLRIKFIDEQGRLFVDDEQQP QPVHGLTSSDEHPQACCELCRQ PVAKK\PDTLTHLSAEKMAKS DPRLGFRAVL DSTIALAVWLQI ELAEPWQPWLADIRSLGNIMR ADALGEPLGCQAIVGLSDEDLH RLSHQPLRYLDHDLVPEASHG RDAALLNLLRTKVRETETVAA Q\VFITRSFVLRPDILQALNRL SSTVYVMILSVTKQPLTVKQI QQRGETQ
24439	54807	A	24577	243	644	HAGSVCPSLYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQGLPRSRKGESSRAHPSC QRRPQVWPPLAGSRPPRPWA ACARLGPIAPARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR*RDC RFPVGKLHRLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISCWQNA*S HVSTFVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASDGRVYPTLITRLADRF VQCIVVGIDTWYDARNLKDISV VGLLGAQVPSVRAGMPQSRRQ TEGAQGMVRNEEGSLRLSHH QACKATHHTQQWTLEVTQSSY NLFPEQWVKLFWGIRQGDPL AFSQKLSRQTFQQQTQTPRPI VGQAPKDLQTGTGPQTHAVH SGDHAAGEQSCSKCKAPIYPLT AQFSLETRSFWSWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTTCNSLAPCAGGYPST GAALPVSRKLPGRGLLSGWG EHNARYRAGTFLWALFCAAAY AYWRRCAWGQYGMWFLRIRRG TLGDGTIRRVFVGSWAAVVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPPAESDGLPAHTTRARTTA DDLNRKRRQHVGCV*YRTRGSP RPNRTWWRVCRYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLSAPASLAN/PVILLVV GNILNIVLDVWLVMLHNMVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLLALNRDIMLRSLLLQLCFGAI TVLGARLGSDIIVNAVLMTLL TFTAYALDGFAYAVEAHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVVYLLAGEHIIALLTS LTQIQQLADRYLIWQVILPVVG VWCYLLDGMFIGATRATERN SMAVAAAGFALTLLTLPWLG HALWLALTFLALRGLSLAAI WRRHWRNRPGTGCLNTKGS QQQHRHDSTTQHIHLQLLVIRV KTTTNNNSQQTPOYPCCQYHT DSRQHRQQNRMVCQRIPHALPS PRFRQISRGSSTAKVPCAKARAF LRVKSDPTLITRLADRFVQCIV VGIDTWYDAETGKYHVNQYTG DESRTVTQWETLDWVQEVQK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVLRELCRPF*SPGTDRNLVMHGH
24448	54816	A	24586	494	835	ITWLPGFRPPFQGSEQFCLAGVPGATGGSESVLHTRNSYKMLEVRRREVAALISALKVSAKCRNCGSSHALTEP/ASSPCWRETSTRPTGAPAPTIPPPAASPSPGPMCVQPHGED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRRTKTP/IFRATPQWFVSM QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDWCISRQRT WGVPMSLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYVKVPDTL DVWFDSGSTHSSVVDVRPEFA GHAADMYLEGSDQHRGWFM SLMISTAMK GKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKL GADILRLWVASNDYTG EIAGSDENLKRACHYNACISL ARRRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVICRNSS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFA GSPFCTAVVTFP DITPLLWILMC*LAILMAESEP KAISPPTISVVP*YAAESLLRV RIPVPSFVTSPLPLILCVIAQL RSVEMVSRPLLITEASPRFFCS LTLALPVSM LNCPTKRLLSPS NSTSVL AVALTIPFPLMLLRSS PVTFFSVNRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERPLPPPIPTM FQLAQPGVQLHAKPVYQVP/V MMQATEPTGI*VRIPVLSIST NAPSITSIWPLFVRKISVLT LASVVAASHAASSPRQCAIRCK IWGRWAGSLRRDDGFGVRSR GSRYGASVSISNFSAGINGKSS RSSSPRRSSQTQPVMPI

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFL YLACFTWMLLEGLHLFLTVRN LKVANYTSTGRFKKRFMYPGV YGIPAVIIAVSAIVGPQNYGTFT HCWLKLDKGFWSFMGPVAVII LINLVFYFQVLWILRSKLSSLNK EVSTIQDTRVMTFKAISQLFILG CSWGLGFFMVVEVGKTIGSIIA YSFTIINTLQGVLLFVVHCLLNR QINSLLLTWTLWILRQLSSVN AEVSTLKDTRLTTFKAFAQLFIL GCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPR CSCSHVSMKAASSPERTFTYCS GIYWLISGSGIGVSVPLISIGES VINLAVRPVIAHAIRVAITTRQT TRVAVTVVVALPVFRAVEHHV FQHLTQTRTGFRWHQFFNRRQ REQSFTQGEGQRWANFQNGKV VNHQLAQLRLRLIIGRVRFENQ RFVVFDDHLA
24461	54829	B	24599	1	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAACKGKKTFILHD GPPYANGSIHIGHSVNKILKDII VKSKGLSGYDSPYVPGWDCHG LPIELKVEQEYGKPGEKFTAAE FRAKCREYAATQVDGQRKDFI RLGVLGDWSHPYLTMDFKTEA NIIRALGKIIGNGHLHKGAKPV HWCVDCRSALAEAEVEYY\DK TSPSIDV/AHPFMGFDVPAILGD HVTLDAGTGAVHTAPGHGPDD YVIGQKYGLETANPVGPDGT LPPTYPTLDGVNVFKANDIVVA LLQEKGALLHVEKMQHSYPCC WRHKTPIIFRATPQWFVSMQDK GCDIGFHASSNGKRRADDSTDN HVRRLCARQRGQPHPHQFQRT

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24463	54831	A	24601	1	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTPMPVATLHAVNG HSMTNVPDGMEIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSGDTGHAEA VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFHFKDLKFRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVEHLLVCAESWVA PRALFDAAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQLPSLT WSSITYSIVVIVEAGYQYHSRLR RFG RVEVNEQIEYLIHNPIRTRA RAVNFVDNNNRLQAPRILRQDS WWITRPLPGLTWAIGSPGILPQ VVKSARVMKQAVAYLEPFIEA SKEQGKTNGKMVIATVKGDVH DIGKNIVGVVLQCNNYEIVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPPEDRHSCFLGCV/YW FLVP*CCLSSLRRCCRR*RGQAS RIQ*LLSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IAQQGG QLC**QASASGPTDITAGFMVD HQTFTGADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGDHRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGGLDLMWN WRACYLFLLVLCAGVTFSMAR WMPETRPVDAPRTRLLTSYKTL FGNSGFNCYLLMLIGGLAGIAA FEACSGVLMGAVLGLSSMTVSI LFILPIPAFFGAWFAGRPNKRF STLMWQSVICLLAGLLMWIP DWFGVMNVWTLVPAALFFFG AGMLFPLATSGAMEPFPFLAGT AGALVGGLQNIGSGVLASLSA MLPQTGQGSLLMTLMGLLI VLCWLPLARGYRLSSWTSTTAS EDIDCEECDGEGNETHGLQLAV EPEGLQPNYMGRGKIRFRDTC LFCTQSRGSQWGFARTELVAL PPFLSGAADYRAGLALWLARG ADCDVDERHRADRQSNLARSS GGFIALAAGAKSDRRLRELNQS LQKELARNQHLEERLLEETESV RRDVARELHDDIGQTITAIRTQ AGIVQRLAADNASVKQSGQLIE QLSLGVYDAVRRLGLRLRPRQ LDDLTLEQAIRSLMREMELEGR GIVSHLEWQSMNQR*AKTSA* RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRCERRISLSRNIARW RTIWRITRPCRRCVFRFIATLR LHLHLIMNDLPLEEYPCVRDLV PGRFLKFL/HRDPKGTTLVLASD LPGRIPVDPRSIIIVMLFLAVRWL QRQLAGQELLETRATRILNGER GSNVLTGIYEWPPRTSSALDTL LREIQNAREQHSRLDTLIRSYA AQDVKTGLNNRLFFDNQLATL LEDQEKVGTHGIVMMIRLPDFN MLSDTWGHSQVEEQFFLTNL LSTFMMRYPGALLARYHRSDF AALLPHRTLKEAESIAVFRALS RLPDLWHRSIGTLTEALPQTDK RQEQIAVALTSYSGLYGLGYGS KEIQLTYSGTAGDLISPLSAIH GRCILNTLVFIVKLRWMENTLH RFGTHHGCSAVRSSHLDSGSPR RSSWHMARARNHIHVLEENMA LLMEQAIANEGLFYRLLYLQRS LTAASSLDDMLRFHRWARDL GLAELLVVLPEAKAVGVSAMS MLGSDADWGVVLFSTRDASHY QQGQGTQLLHEIALMLPELLER WIERGWEQQVWRYGFLRYVAF LTGWSAQNELKANPAKGVSA KAPRHLPKNIDVDDMNRLDID INDPLAVRDLMYGAGRLSELV GLDIKHLDESGEVWVMGKGS KERRLPIGRNAVAVIEHWL DLRDLFGSERERRQHAGTNVLQT ADQRASRARQEGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKKL IHNQVSFIPGMQGWFIHKS SMKVIQHINRTKDKNYMISIDAEK AFDKIQPFMLKTLKLVAGM MAVAAPDDPPPSVSSSKPSTV APPGRISPSGRALCTSLPSALSSS SKFSLRIFQVPAKLGMAVAVAA AAGVNAMLRKVAVAAASKPH VEIRQDGDQFYIKTSTTVRTTEI NFKVGEGFEEETVDGRKCRVR PQSHYSVPVSPLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSR QERPPAPGMTSLSLAAVSSDNP VSGDEHIRLARASGRFGIGRVA QPKRIQRRSSTPRAATDLGNPG HRPCTVRKSALLVVSVCRRHSS RSLRFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSSKRSRTVCKRRAPMFSVDS FTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSTRIG\DDLA VPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMGAGTLVLGACCLPWP REGAHNVATAACGGWRARCD LRFRLSCKLGLSRQFFGWNA
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFLSLSRINSRL LKAELLTSSIPVLLPSLLLPRFQ VPSLFATAVPVSAAPLIAPSV*L LKTPPADIIIRPVTLPLLLNTPAFC TILLMVPVLTNLSAPAFMVIC AVISPALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPPGNYTPK IFKIKGTGHNPM SAIENFDAHTP MMQQYLRLKAQHPEILLFYRM GDFYELFYDDAKRASQLDISL TKRGASAGEPIPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSNGNRNGGRKIVAVS LKKVSGAAKPCGHFRSTRYRV AYSTIINN KAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPEPR KISTDADNLAQGSLKERLPAWL WGKKENSKWEVLD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCR/YRGASALTST SVICINTDKALRKIIRLPLNGLR KPLNAMTLPGITWPLCITTEKE DLSISDRLSTCIVKF SHPEPEMS VRKFVPPAILLCVCLRFSCPTR HQBAPAKWILKSCSAWMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	



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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCVLQVL RGLQYLHRNFIIHSQEQTIPDPSI SDQQETPLLAGDMAQRGRGG FYYVTAYIYVDKKAPVHMRTA AQGLITLCCQGFSGLLGYRLGG VMMEKMFAYQEPVNGLTFNW SGMWTFGAVMIAHVLFMIF RESNEITAIVMEDSMSSATT LTPQEQVDSLIMQIAEENGLE VLDQLSQLPEGASAVGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDLLNLPTYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRL**RR WRRSPAGI*GSRGAATTLSQRQ AQLTQHQITIRIPPGSGLPVVP KFPTGCVVVGAGPVRFVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDPTNMLFTQGAIHRTDDRTQ SNIGFGWRHFSGNDWMAAVIT FIDHDLRSRSHTRIGVGAEYWRD YLKLSANGYIRASGWKKSPDIE DYQERPANGWDIRAEGYLP PQLGASLMYEQYYGDEVGLFG KDKRQKDPHAISAEHSPEFRSE ALKLVNASVLLPQPVNSACMN HNSTTGAVNSKISRRLNPNW RCLPRLHVSNASWQNGMKSWL SSKRPRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTRINIAVVRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKGNDGIAAF VQRLPGAIGYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQSINVPR/RSGWPAAAGIRGV SGGQG*TLL*YAAQMAPELPSS TPATWRK*TKSGKTTLV/HGST VKWPIGLGGKGNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANA GADWSKTFAQDLTNQKGEDA WPITSTTFILHKDQKKPEQGE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNIK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRCRDRRTRFKRIN
24497	54865	A	24635	1387	1639	ESKPLNLGRGSGFLLTRALSAQ PLWQSPDQHLTPQAGLRSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSIVVKNNIHWVGQRDW EVRDFHGTEYKTLRGSSYNSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEDH AGALTELMAQIPDTPIYCTANAI DSINGHHHHPEWNFNVVKTGD TLDIGNGKQLIFVETPMLHWP SMMTYLTGDAVLFNYDAFGQH YCDEHLFNDEVDQTELFECQ RYYANILTPFSRLVTPKITEILGF NLPVDMIATSHGVVWRDNPTQ IVELYLKWAADYQEDRITIFYD TMVNNTPMMADAIAQGIA\ETG PRLAGENFNV\ARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIVRFTKVEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARREW*QNLSAFACL*R ILFLLHL*SLVWLDMKCWVENS FL*EC*ILAPTLFWLVGFLPRDP LLV*WASL*G*PDLSLWLPLAF FPSFQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFA SMFIKDIGLKFPFLVVSPLPGFI RMMLAS*NELGRIPSFSIGWNSF RRNGTSSSLYLW*NSAVNPSGP GLFLVGKLLVIASISEPVIGLFTD STSSWFSLGRVYVSRNLSISSRF SSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPVLASN TRYLWPLSST**GSLSVWLSPD V
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSPARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGTRLRRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWVDPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRI TKYSNSNGSQSPWMEEQIRDA WGSMAIKNVVRETNEVGKAA PMVDSLARVGVMAIGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGGQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSPGAGDHA NSPQSSSPSTGVHINSPQLSSLS AGVHTISPQSSNPVSGVTALSHP DLVWVFTLTAHSRPVLVWVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAPQGTA SVYHGWVDPDLHIHAEAALLPF YLGEKDDVTYAIKPTCWPLDI IPSCALPRIPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDLSKDVSRLETVF VPPEKHEKEIHALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEFVKIKDKNEILKRNLE NTQNQIKA EYISLAEHEAKMSS LSQSMRKVQDSNAEILANYRK GQEEIVTLHAEIKAQKKELDTIQ ECIKIMKRAPVIPKHTLNTQPVE DTSLSSTPAAPMVDSLIARVGVM ARGNAITLPVCGRDVKFTLEVL RGDSVEKTSRVWSGNERDQEL LTEDALDDLIPSFLTGTQPTAF GRRVSGVIEIADGSRRRKAAAL TESDYRVLVGELDDEQMAALS RLGNDYRPTSAYERGQRYATR PQNEFAGNISAMADAENISRKII TRCINTAKLPKSVVALFSPGGE LSARVIDSAPNLGIGTINVVCA ADVLIPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYTNINASQSPWMREKFGMA WESMVLKNVVRETDEVGKGQI RMRADFV\QAIDQRSSTGAWRN ALSIWEPVCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQTDDVVSIN EFLKQMAF*AQKLKE/WRTSAA SDITPAGFCSCRAIKDAEKPGRLL PHPD\MEFRDRVDQ\RVVSPFGQ I\HMRNVFGPRLPRAKDVFPV IGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDP\QGT ASMVSREGDPALHI\YQEAPFLP FYLGEKDDVTYAIKPTCCPGLN IIPSCALPRIETELMGKFDEGK LPTDPHMLRLAIETVAHAHDY DVVIDSAPNLGIGTINVVCAAD VLIVLTPVE\MFYDTSARQFFD MLRDLLKNA\DLKGFEPEVRIL LTKYSNSNGSQFP\WMEEQIRD AWGSMVLKNVVRETGEVGGK \QIRMRT\VFEQAIDQRSSTDTSL STPAAPMVDSLIARVGVMASR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSGI VSLKIDWIIERYQLPQSYQRMP DFRRRFLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGRRLRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TA\SMYHEWVQNLHIHAEDTLL PFYLGKKDDVTYAIKPTCWPG DIIPSCALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDERSVPTEYR YGVFLNVLLPATKYFQLHDPSL RNMELNYSASEDLVLKGLRV LLVEGNDPQGTASMYHGWVP DLHIHAEDTLLPFYLGEKDDVT YAIKPTCWPGDIIPSCALHRI ETHLMGKFDEGKLPTDPLML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVIVPTPVEL FDYASARQFFHMLRPLLKNVD LKGFEVDVRILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV KEFAGNISALADAENISRKIITR CINTAKLPKSVVVFFLTPVNYL PGDALQKAFTDKEELLKQQAS NLHEQKKAGVIFEAEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDERSVPTE CIEKIEAILKELEKPAP
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQVR DVQRNGDHTGAVR*LSIAFFS ALLKLLAFFTEEVRAAAVVRV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPPLIYPNGIVKNILR HLSQLLNPITRPFWSILRPF*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETAVINHKKRKNSPRIVQSN DLTEAA YSLSRDQKRMLYLFV DQIRKSDGTLLYMTYRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENRGRVEQRGGYTIEPNN HMRDGVGTRWRAEDVFPLI G\VAGHKGGRYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVDPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVPEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSECECV FCLSCTNSLQKEPQGEVLCPF CLEASQKNNIRLNRQLGRLVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHR DVFGTRLRRAEDVFPVIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTASMYHG WVDPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVALQNFQRYTGIQH VHRIGMAERMWCDNRNRHT VSSSGGNRLPNPGPDRSDLALK GLRVLLVEGNDPQGTASMYHG WVDPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLVFRICFVIWAQERIDIKGFEP DVRILLTKYSNSNGSQSPWMEE QIRHAWGSMVLKN/VVRETDE VGKDTGVRKSIWCHNRNRWE

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24525	54893	A	24663	504	1254	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVVHKHLLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWVPDLHI HAEDTLLPFY\DPHMLRLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPA VRILVVRVSQRMVVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQVRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRL/VKRAPTC WPGLDIIPSC/LALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDFDFSANVMVNFAP VFPMGKYTTQADKVLPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	



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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILD FQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVDANA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSAKKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLKR AEDVFPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGLPLGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQQAQVKGQQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRERTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPE/V GCRR*KRL*IFSLVYQTCAQSIQ RALQCTYQPISHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWVPDLHIHAEDTLL PFYLGEKDDVTYAIKPTCWPG L DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVIRLLTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTALVPLIPNDD TPTRRTRPLLGGQVFSVRS*TV P ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYGQLLRPRFHHGQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPTQAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQHIFVLRER PETVLIDLIQRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEEDD
24536	54904	A	24674	31	811	RRGLLGTRLRLSEDVFPVVLGV AAHKGGVDKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPELHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC L ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVIRLLTKY SNSNGSQSPWMEEQIRDAWG\SM VLK NVVAFQNLEFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDTSIYM FYQKVGDN SIDSWKNAGR VFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYL VFEANTGTENGYQGE ESLFNKAYYGGGTASSIRKSDG TLQEHGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCRR*KRL*IFSLVYQT CAQSIQRALQCTYQPISHSLLYR VTEPVYAVSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQSLTTAQVNVLSDDTLKING VEDHKAIFDGDGKTYQNVQQ IDEGNYTSGDNHTLRDPHYVED KGHKYL VFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQSAKKRDAELANGALGIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLF TDSRG SKMTIDGINSNDIYMLGYVSNS LTGPYKPLNKTGLVLQMGLDP NDVTFTYSHFAVPQAKGNV ITSYMTNRGFFEDKKATFAPSF LMNIKGNKTSVVKNSILEQGG TTLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQELGQNQY AVSGEIFVDRNTVEITELPVRT WTQVYKEQVLEPMLNGTDKTP ALISDYKEYHTD TTVKFVVKM TEEKLAQAEAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSYGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIENRSKKDLIQMLVQRG YESDPVKAWEAQEKCDNLKKT CHTSHGSVMAETA VINHKKRK

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24541	54909	A	24679	5	253	SAPKVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPT VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFLVG GHKIFVFHCHTELRSIHQAGK NVNKGRIKLVLIFLYGL*/QRP* YPAERSGYRYIEQLTEMPQNVL YDAIGIYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHGSVMAETAVIN HKKRKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKTKARELREECRSLRRCN QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRTPQRYSSGRETPRHIIVRFT KVEMKEKMLRAAERKCDNLK TCHTSHGSVMAETAVINHKKR KNSPRIVQSNDLTEAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKSYEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCAQSIQRALQCTYQ PISHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWSK ILVSGTHRARTEVEVTDPIHQQ RMGCCFTVGAGEICEKPTGCFF TPLPNCNCQWTGSAILDRRSHS HPHSPASGSWVKVVTGSYQLT HSPGIGLRDFADFGTPHQTGFSP AGANQRGPLVATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLMHFKILVSRAHRART ELEVTDPGSSAENGLLPVVL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVLKDSKFD NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKT FDGDGKTYQNVQQFIDEGNYT SGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKS VLRRRHLLPDFADFGPTIKQD FRLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVPKDSKDF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTCHTSHGSVMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMLYLFVDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEK/ML*IFSL VYQTCAQSIQRALQCTYQPISH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTGDFICISMTGGAPWGFRLQ GGKEQKQPLQVAKWANLKPGP PSHGSVMAETA VINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRGIGYRLSPNKGL*TWSAL CKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPEKHDLLAAILAAKEQGI GAILAFAMAYLRGRYNGVLEA RSLKSRQCQSHALAEGRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRRTVSRLGR RWQELLRDVFGTRLRRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPA LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILL/ KYSNSNGSQSPWMEEQIRDAW GSMGLKNV/VRETDEIG/KGQIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEKSNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGEGARHVEARS PGGGSEKRGWGGARHQRMCR KGADNGGAGRARRVARLRQL ASRAIGRRKGAVLYQTPVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQRALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIIVTKSILI EIEIPTQCLRNLTNLHLAASAGN HMSNTACWYGCEDFTSVSTFA HQGVGSWDAYEPAASLLLS NLKTCHTSHGSVMAETAVINH KKRKNSPRIVQSNDLTEAAYSL SRDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRAEDVFPPVIGVAAHK GNDPQGTASMYHGWWPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELM GKFDEAQP NLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSSTP AAPMVDSLIARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGTQQT PAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALF SHPGELSARS GDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAE EVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	



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24593	54961	A	24731	1	1823	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVS SDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRCNLTCHTS HGSVMAETA VINHKKRKNSPRI VQSNDL TEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPE/VGCR *KRL*IFSLVYQTCAQSIQRALQ CTYQPISHSLLYRVTEPVYAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQ QLFLRTELEDIGPGIVKRELGRE GSKDTGSSDDWEQLPDWKTKR VGNERDQELLIEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIITRCINTAKLPKSV VALFSHPGELSARSGDALQKAF TDKEELLKQQASNLHEQKKAG VIFEAEVITLLTSVLKTVQSKN LSHFTWICHAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKHVVTISP QTSAYERGQRYASRCKNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECKRK LRPF*SGQRTDTAYVFD PGRDY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQLAISGRI LFLPMLNSINKLAAPSQPCTEPF FRRDPTLHPKSEVRLPPKVTIT VISNPILITPQEKSPAQCTYNQT VQLDITAFLLKTVKKNKHKFYPA FIHILARLMNAHPEFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQFLHIYSQD VACYGENLAYFPKGFIENMFFV SANPWVSFTSFDLNVANMDNF FAPVFTMGKYYTQGDKVL MPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIIERYQLPQSYQRM PDFRRRFLQVCVNEINSRTPMR LSYIEKKKGRQTTHIRISDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCRRL* RL*IFSLVYQTCAQSIQRALQCT

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24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGVRTGD FQLHTNVNDGAIEFGGSVYQKV CEELDALINLAWSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPEAGVKLNLSALCDN LKTCHTSHGSVMAETAVINHK KRKNSPRIVQSNDLTEAAVSL RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY EIPVVSIRKPGMGSGIVSLKIDW IIERYQLPQSYQRMPDFRRRFLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEADLLGVSS QAIRDAEKAGPLPHPDMENRG RVEQRGGYTIEPNNHMRDGVG TRWRAEDVFAPPLIGVAGHKG GR\YKTSVSVHLAQDLALKGLR VLLVEGNDPQGTASMYHGWV PDLHIHAEDTLLPFYLGEKDDV TYAIKPTCWPLDIIPSCLALHR IETELMGKFDEGKLPTDPLML RLAIETVAHDYDVIVIDSAPNL GIGTINVCAADVIVPTPAELF DYTSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF

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24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGTLSQRQP SSNSKTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLLTGQQTAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDEQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQASNLHE QKKAGCDNLKTCHTSHGSVMA ETAVINHKKRKNSPRIVQSNL TEAAYSLSRDQKRMLYLFVDQI RKSDGTLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHNAMPPY SCKNGHNLKTVDDGMDAVNG EHFYTAGLSQGPKGSFLLFFNI LILVCPPIFRVSGNEVFIRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEA VAPLLLTCDNLKTC HTSHGSVMAETAVINHKKRK SPRIVQSNL TEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THICDNLKTCHTSHGSVMAETA VINHKKRKNSPRIVQSNL TEA AYSLSRDQKRMLYLFVDQIRKS DGTLEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPE/VGCRR*KRL*IFSLV YQTCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSCLKVTSVCLTSGRRFLQIR ISDGTLEHGDGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKKGRQTTHIE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDERGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIER YQLPQSYQRMPDFRRRFLQIRK SDGTLEHGDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPYA MRLYESLCQYRKPDGSCIVSLK IDWIERYQLPPRYQRMPDFRRR FLRVVWQEINSRTPMPPLLPWE
24601	54969	A	24739	1	1986	

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24602	54970	A	24740	1	398	MVDSL IARVGV MARGNAITLP VCGRDVKFTLQVLRGDSVEKT SRVPPGNERDQEMLTEDALDD LIPSFLTGGQTPAFGRRVSGVI HTADGSRRRKAALTEKFCIVD NPPGEIRKRACLFIPHTALNLNR FEDICYAHQLPDGGLLSARVGV MARGNPILSPVCGRNVKFTLKV LRGDSVENPSRVWSGNERAQE LLTEHALDDLTSFLTGGQTP AFGRRVSGVIEIADGSRRRKA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSPYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPGE LSARSGNERDQELLTEDALDDL IPSFLTGGQTPAFGRRVSGVIH TADGSRRRKA/DTYRKILYR** PPGGD*KKSVPFYSNTCAQSQP
24603	54971	A	24741	1450	3699	RNPLQIPKQQQNEKYQVPQFDQ STIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGR VFKDSKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHGKQSLTTAQIFQ MITVFITSLCNTTSSHICLHISWV TTMHGAMPHPGHIPTAPASLPA KVKGSGKVCWLAFLSELTPPS ALQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQHFIDEGN YTCGDNHTLRDPHYVEDKGHK YLVFEANTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFDTDSRGSKM TIDVPQAKSTNVVITSYMTNRG FFEPEGSKGSITAAMVAKGLSV ASGNSTPERRRATANENVQPR IRDAEKAGRLPHPDMEIRGRVE QRVGYTIEQINHM RDVFGTRLR RAEDVFPPVIGVA AHKGGVYK TSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWPDLHI HAEDTLLPFYLGEKDDVTYAIK PTCWPGLDIIPSCALHRIETEL MRKFDEGNLPTDPLMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAEQLDIS\SS RQFFD\ILRDLLKNVDLKGFEPD

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24604	54972	A	24742	1	3899	MVDSLIAPVGV MARGNAITLPV RATNVKFTLEELRGDSVEKTSR VWSEKKDRGGQEA EVSGEGSS QTKSLQKRQHSNGSDFTARGF HTGQALVR SKGTYNPTGLGL SHGTEDPNLIGEELDAGEWDK NTRKELAVLNVRDFADFGTTI KQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQFWVFEGGLRVLVR ERVTPKGTASMYQGWVDP
24605	54973	A	24743	268	2617	RMFRMKLMETL\ SQCINAGHE MTKAIAIAQFNDDSP EARKITR RWRIGEAADLVGVSSQAIRDAE KAGRLPHPDMEISGR\ VKHGVG YTIEQIYL\ TRDVFGTRL PRAED\ VFPPVIGVAAHKGGVYKTSVSV HLAQDLALKGLRVLLVEGNDP QGTASMYHGWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWP G\LDIIPSC LALHRIETELMGKFD EGKLPTDPHMLRLAIETVAHD YDVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKTVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDTSLSTP AAPMVDSLIARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMALNLDRSRVPAYIIRSY IRCGRKGFASAGVGGCRGWLN YAASEQIVLRVHHMRCEIPHRC



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24606	54974	A	24744	1	2624	MTPQKRGYLCKAGARNLDVLL EGCEIFLLIPMGMRSESGVSDA DTVSAPRKKHSLEQGIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGPDSESELGYREKFMSF VGTMNEAGNPPFSANYSKAKK PKPRMFSLIERMSPSPRVGSQSV QSSCFRDIPFEQDQMFPHPSLVL RSKEQQPLLTQSIGVNSARKAM AKRRRHRRRRRVSGVLP\IA\VG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRLMNVA\GNDP QGTASMYHGWVQILHIHAEDT LL/PFY/LGEKDDVTYAIKPTCW PGLDIIPSCALHRIETELMGKF DEGKLPTDPHLMRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYSNSNGSQSPWMEEQIRDA WASMV*K\NNVRNANEVGKDT LKGfYSLKERPLGNHFLGPNNR PFGKIMKHKTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGGFCRFRNHHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQYANRLSP
24607	54975	A	24745	1	385	MWQAISRLLEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDF VKCDERELLPGFTEADQLELL SRSKTVTVPK\AFILGQQIARLH QWSDHAVLKIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

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24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFVVC DERELLPGFTEADQLELLSRS KTVNRALKVWA\VGADRELTV FLV\MDYLPFRPLDAHSAFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNIDAIVE HIQQRLASHQPQPSLLHGDLS GNCALGPDGPYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFGGQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYYSNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMNNLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNL SVNVGGRAEVHAGTL ENAVIQGGTVILLSPTSADENFV VEEDRAPVELTGSVALLDGAS MIIGYGAEQQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLRLTRGHDFACYQ RTTQLARQRLKVC SHLIVGLP GEGQAELQTLERVVETGVDGI KLHPLHIVKGSIMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNEHGVQG SALGRPWLPTENSLMKQIRLL AQYYVDLMMKLGLVRFSMML A\WPSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAHP ATRDFNVRALYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPVAQATVIETFL RYQTINERDFWAARNRLKQP YGSRLRFTEAYIAERAAQSV LRISLADAFNVDGPRPAEDSIFR LLRMPGSAVQRPDRRHNRRCQ YRPAMAFPAAGSKANKQRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMRCRNASTCAEDSQLS/DPLA R/PSVASGPYRVTSWKLQGNIV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFEAFKAG AFDLRMENDAK\NWATRYT/G DRRVREAITLAFDFEWMNKAL FYNAWSRTNSYFQNTHEYAARN SPPPEL\VLLPPIKKVLPSEVFP\ QIYQPPVSKGDGYDRDNLLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLTPASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIIAAQGNKEK FLPLGRALDRVLTWNYYMLPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWWYDVNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSRPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRHL CS*ERYQHQALESRTFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPITTGRRVFFTTPLILPTRAL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLFLPPP GGSTVFLLPYSPRLCRSTSETP LPAITR*HFPVTDRVQK*ITRRR KPRHKPFYPDDLQQRDAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDQPRLVE W*KSACSHHR*LHPCGHCRQF MNELNSGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTLLMDE QDHGYALTGDALSQAAIAAAN RSHMPYSKSPSGVALECKDGRV LVAATLKTPH/INPTQICGQPWS MHRRALTSKFGAHGDRRTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTRW ALRRILPPLRNRSRAASWRAS PGARK*WMPSLQAVWAAPMR VTRLPAWLRWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSIT FTARRANPVQRIAARILLRDHLI CRMSC TAARHANTFDLIQSGS ADNF AAIYGGANDRITRADA VAGAGNWHRFGISNGKLSPRSI TRTSSPARAMTKMPYNPQASG GSNLAVSNPELDKLIARVAAL RAANPDASASVPVELVTASASY PRSLMRCNRILSPGSARGQMIIT ALFIYAGNPIACVAALEVLKVF EQENLLQKANDLGQKLKDGLL AISFWRAKWLKIFVVC GAEIFV EYVLKNKVIWLLCFANIFLYVV RIGIDQWSTVYAFQELKLSKAV AIQGFTLFEAGALVGTLWGW LSDLANGRRGLVACIALALIIAT LVIPFHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNI EC VQT LDMMPENFS DTRWAADIHITPD GR\HLYACDRTASLITVFSVSED GSVLSKEGFQPTETQPRGFNVD HSGKYLIAAGQKSHHISVYEIV GEQGLLHEKG RYAVGQGP\MW
24624	54992	A	24762	3	486	ACRRALKDAGVEADEVLEV MVG GSTRVPLVRERVGEFFGRP PLTSIDPKVVAIGAAIQADILV GNKPDSEMLLLDVIPLSLGLET MGGLVEKVIPRNTTIPVARAQD FTTFKDGQTAMSAGGAHIRVTF QVDADGLLSVTAMEKSTGVEA SIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVCAVIAG NVFPRHNVQGQH*RNCQQTNR SSINDFTKLSNTRPISVHSLGIKQ SRPDRHAKASPVVTAVKACEQ VIAAVNQIADHDHQPDRTKQRN AIVVADDLPDLFPVHFFGVVDHQ QHNHRDKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAEKNLPVL LALIGIWYNNFFDKNDALVMV DDFPRRSGLSWKIVVVPHEYW VGGSTRVPLVRERVGEFFGRPP LTSIDPDKVVAIGAAIQADILVG NKPDSEMLLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDGQTAMSIHVMQGEREL VQDCRSLARFA\CVVFRRYRL/A GAHIRVTFQVDADGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQQEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTEVASDFRVQTTNADSALF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQQIATNPADQVQ AVGFTRTGKDLCHFHHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLALVMTLITFMVL RRIVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEEIYR GTSEISAGNADLSSRTEEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCPLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPGKPKDPSLSKD VSNRVPQRVPCYDSPRSSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTNV AGWQGEISREQFNELIAPLVKR TLLACRRALKD\AGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPKVVAIGAAIQAD ILVGNKPDSEMLLLDVIPLSLGL ETMGGLVEKVIPRNTTIPVARA QDFTTFKDGQTAMSIHVMQGE RELVDQCRSLARFACVVFRRYR LAGPVDLFLRPWEVDISRTSL DSPLPVQVLEASPKGHYTQLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMARFVTCRDPKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPDNGSEVWLKLE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLIEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPASLGAHLE REGGENFTFFSLNADGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRSVKPTQCGSAPSKRPNL TLLPSITLMPPLPVTDLKLG CIA PCSSDCFSFITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGSPAIPFHS LML/RFWLR/TCTVPGWPLDDS SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRAVSRPKYCSRERWL/HY DFTVARFDENASCGTFAATS AVLIFSHCLRLLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFKGRFLDITDV AGVVIVHVFSTLVAGYSNFVSV QNDDVITGIYVRSVFRFVLTAQ ATSQFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHHCFFCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSAFTKPDATTAGHYLA GHSGDIWHGYLPDARPGRLRYG YRVHGPWQPAEGHFRNPAAKLL IDPCARQIDGFEKDNPLHAGH NEPDYRDNAAIAPKCVVVVDH YDWEDDAPRTPWGSTIIYEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALLELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVILDIVLNHS AELDLGGLFSLRGI
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKTG FAYADQISLLALEQSAQAARTI VRDSGDGKVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEVTASLSGV YELILVAATDGTAAADVRPLGK VLLVGQSPNAELSARAKQIAM GVDGANEVYNEIRQGQPIGLGE ASNDTWITTKVRSQLLTSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGAEKQLIPDGC GVSYPSSGP LDKWRALLFIQPDYRADPVYR QHITITDLRILYDYTENFVLPLSH DEVVHGKKSILDRMPGDAWQK FANLRAYYGWMWAFPGKKLL FMGNEFAQGREWNHDASLDW HLEGGDNWHHGVQRLVRDL NLTYRHHKAMHELD FDPYGFE WL VVDDKERSVLIFVRRDKEG NEIIVASNFTPVPRHDYRFGINQ PGKWREILNTDSMHYHGSNAG NGGTVHSDEIASHGRQHSLSL
24646	55014	A	24784	1	1079	MKQIKELQRLLGKKTWKMNSS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDIKPTIKTNTSS RGNEKNPDGSHNNIHSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKA WSGDGHTLSEC GWAPLAAGDNVGKVS YQTLG YYQRILGYIFYPIAW/VMGVPS EALQVGSIMA/TKLVSNEFVAM MDLQK/IASTLSPRAEGHISVFL/ VSFANFSSIGIIAAAACECDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQCARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRSIQFFGLTNMGQN CYQLS*E*FIGTLNHIRIPQLS
24648	55016	A	24786	1	470	WGS GDGHTLSECGWAPLAAG DNVGKVS YQTLGYYQRILGYIF YPIAW/VMGVPSSEALQVGSIM A/TKLVSNEFVAMMDLQK/IAS TLSPRAEGHISVFL/VSFANFSSIG IIAAAACECDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQC CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLLQSP QGHQTFCFT*HNLGLQPFWIPM CLCSVN VFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIDLSSGWPFILWQVLSPN *RCLQVGLFAQIPTGRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL



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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRERFFCVFL LVGVFARGACLGGGGGCGLCV RYLRSAGWGCGRRFPCVGDN WSAILAHIGKPEELDTSARNAG ALTRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFILAG QTLAHIRVLPVIRAIIGFLLSKV NGMGKLESFNAVSSLILGQSEN FIAYKDILGKISRNRMYTMAAT AMSTVSMIVGAYMTMLEPKY VVAALVLNMFSTFIVLSLINPYR VDASEENIQMSNLFEGQSFFEM LGEYILAGFKVAIIVAAMLIGFI ALIAALNALFATVTGWFGYSIS FQGILGYIFYPIAWVMGVPSSE ALQVGSIMATKLVSNEFVAMM DLQKIASTLSPCAEGIIISVLLDSF ANFSSIGIARAVKGLNEEQGNE GSRFGLKLVYRSTLVS\VLASIS AALVLS DHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTPFHVWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLAIQCSPPHSTI EKFTSQSQHVLA*GVSAVRSM VSSG*GRRPLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVMFQIRNVNG AMPFPEDRGWKDTVWVDGQV ELLVYFGQPSWAHFPFYFNSQT LFSWPQYWAACFGPAPFLPMS REEMDQLGWDSCDIILVTGDA YVDHPSFGMAICGRMLEAQGF RVGIIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVVPILG GIEASLRRTAHYDYWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAI VKEALPGWSGVDSTRLDTPGKI DPIHPYGEDLPCADNKPVAPK KQEAKAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNP\AVPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAYVQPSSEGQSRS RRARRVSQCHQHSAAAASLAR TAASATADSAHPPCPRSAARAG ATMHVKKYLLKGLHRLQKGPG YTYKELLVWYCDNTNTHGPKR IICEGPKKKAMWFLTLFAAL VCWQWGIFIRTYLSWEVSLS VGFKTMDFPVAVTICNASPFKYS KIKHLLKDLDEI.MEAVLERILA PELSHANATRNLSFSIVNPTPL VLIDERNPHHPMVLDLFGDNH NGLTSSSASEKICNAHGCKMA MRLCSLNRTQCTFRNFTSATQA LTEWYILQATNIFAQVPQQELV EMSYPGEQMILACLFGAEPKNY RNFTSIFYPHYGNCYIFNWGMT EKALPSANPGTEFGLKLIDIGQ EDYVPFLASTAGVRLMLHEQR SYPFIRDEGIYPMSGTETSIGVL VDKLQRMGEPYSPCTVNGSEV PVQNFYSDYNTTYSIQACLRSC FQDHMIRNCNCGHYLYPLPRG EKYCNRRDFPDWAHCYSDLQ MSVAQRETCIGMCKESCNDTQ YKMTISMADWPSEASEDWIFH VLSQERDQSTNITLSRKGVKLN IFFQEFNYRTIEESAANNIVWLL SNLGGQFGFWMGGSVLCIEFG EIIIDFVWITIHLVALAKSLRQR RAQASYAGPPPTVAELVEAHT NFGFQPADTAPRSPNIGPYPGEQ ALPNPG/TPAPPNYDSWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPITLPDGSQRSFDHPVSVAEV AQSIGAGLAKATLAGKVDGRLI ITPKDEEGLEIIRHSCAHLVGHA VKQLYPTAKMVIGPVIEEGFY DIFFERPTPEDMAAIQQRMR LIDKDYDVIKKMTPRAEVI KLQAAPDRRHAGREGHGLYFH EEYVDMCRGPHVPNTRFLKAF QLTKISGAYWRGDSKNEQLQRI YGTAWADKKQLAAYIQRI EKRDRHRRIGKQLDLFHLQEEAP GMVFWHPNGWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYLPKP LSVNPSRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLRRV LAGSSLLPLLMG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNAD LVVWVGPEMEAFMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RYDWGRLTVLYSGSSLSGGRY VVIIECHCQLSKPLRLEQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVYSTGD TLSSILNQYGIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LNLG* EIWLESGAFKKALSPQKHPGLE PSVCTPTPTLVPDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEKQQRVADVTEQCGRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPEPVMM VRKTVRNMQPGETLLIIADDP TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGDAAF SPHPNPLPRGARGPIALNVAIGL PYLLRNNLNFAVTSTVAPVSA STASHNPVIQRGDEEDPFQQR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLTYAETRRLYGKEVYH RPSRFIGELPEECVEEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQVRHAKFGEGTIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCVPATTAAASMAKRAP DMSQSAAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPDATLSRLIRPTTV ADPPDKALAPHPAVFTRGDSKF LSHKPARSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKLRL RRFGFKSCKNGVLYRISSSITT SPASPIATCRPVLPCWMRMDPM LDMMGMQMLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVETF KEDWEAVWDQLDDLNLLEGKIV A*GRDPAAFHIDNGAFTKLSVA YALAEVAAVVDHRRTHPLM ADRAAYRGAQAHLFHTLFRQL ADKARRAMVNLFTIQTAGFRV GQRQFLH
24677	55045	A	24815	3	707	GCTLGPVKSFSLRVAWLSWPQ YFYIIERACSPCCGPLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNLYLPTNQKKQTQQEQS HNITKQGSQQLHDVTQVPYQAY RSAIVVGLIRRDVASGIDCRM RRERLIRPTGRASDNTEFTGTQ NMQNITHSWFVQVMIKATTD WLKGWA*AQRRQPDATPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLSF/QHSRDIYDNQV HLVRNCNLEMPDQEFIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNWAAQILG LREYLKRKPGALSGGQRQVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMTMATRIVIM KDGIVQQVGAPKTVYNQPANM FVSGFIGSPAMNFIRGTIDGDKF VTETLKLTIPEEKLAVLKTQEV CPDHTLDALGLRCPEPV/HDGA QNRAQYAAWRNVADYRRRSG HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRRLCSVFRY QFSIVLATC*GTFFPSR*STILS* VTQSATSSGREGRSSSRSLNGRF MFSIASMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLLS RPHAGRYADSLGPKKIVVFGLC GCFLSGLGYLTAGLTAVCLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSVDGCCEKAMSVIIIG GGMAGATLALAISRLSHGALPV HLIEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITTVHVVELHNVGQRLFAL LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLTGRVLVAA DGTHSALATACGVDWQQEPYE QLAVIANVATSV AHEGRAFERF TQHGPLAMLPSDGRCSLVWC HPLERREEVLSWSDEKFCRELQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNH KALEKRTLTVWDNSFLIYRQSD VSEIRLASLFASFIRKSKQQRAR KHTNRRSKDKEKRTRQKRKTT SRQRRRRQRMVRVGDEQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDHAAEAITGFFTKYG DGGTDINPLYRLNKRQ GKQLL AALACPEHLYKKAPTADLEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAENPQWKFVL ARRGFARGTAEAHPSQYRHW KIHLNPGLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFFLIQTSLKSNGGKGKLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRLRASFSRKGARIPFVGC RETCELPQIELVKMMLGRELDT HALQRAGRTLSDKPVAAFKN YGKKGTIAPFDLEVRPGEIVGL AGLLGSGRTETAEVIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKTDGIIAAASVRENII LALQAQRGVCYVPFPAKNSKRL PNALSASLAF AHLQLNNRLNFS PAAISKKCCFYVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPQGAGVGKRVSG VPDELSPLFSVGSRYLQGGVGL VSPTSGANVGLPVISTNNLVKE CR\DGKWKMTTEKGCLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMFAGSKVGLGVKVAG ITQDFTDGTNTTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYPA TGTPPTIQGANPTNISIPNTLM AAKTTTTASMQINLNSSDPLPT VTPFSASNADSYNKKGSVTVFD SQGNAHDMSVYFVKTDGNNW QVYTQDSSDPNSIAKTATTLEF NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQQNTGANNIVATT QNGYKPGDLVSYQINDDGTVV GNYSNEQTQLLGQIVLANFAN NEGLASEGDNV\WSATQSSGVA LLGTAGTGNFGTLTN/GSIESGI AFLVNVPLNPKLKRVNVAGAR WHPYGWPAFAERA CLIEPEGD RRTHHRPNNQRTYSRKTQRQG GHKTRQDNWEQKGDGGRPEP TDPHQHDANRPTVATKKRRKS TQSQRNHRNPKGTHPTEEHT AGTTKPPDTPQTDNWKGS REGKANRKRNLRGAEVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	



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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVIGHYRCSTTNTGRVLDVAI/S QNGFFRLVDSNGSVFY/SRNGQ FKLDENRNPATGTPPT/IQQGAN PTNISIPNTLMQRKPTAGQIVLA NFANHEGLASEATTSGLRRL A WRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFAVSAAF ALGDHLGFAAANMNAMIFPMI VGKLIGGVTAIGVAMMLVPRY EFIKREISWQSPVFFTPVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIITGESAKTRNAR*TGR FKRSGTENL\KLEQYHAAGIEPE SVDSGAIITGESAKTRNARPTV MALSQLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILVPSSSP VKARKPAMLARRGWRSLSRW AILSLPGPGR*TGRFKRSGTENL \KLEQYHAAGIEPESVDSGAIIT GESAKTRNARPAGMALSQLG DFVVARAGPHLESVNAGYRTRI RNHGHSWFPGEIGIRSQPHTLR TGSINGKAWGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSWRETVAASG*RRTGSARA NCFCFSGLTRDFSIWRPETK*SA QTFVVGTVRCGGMGR*IAAVL SRYSTVESGVSSSTHRLPLQPD PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNRC RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMNTPQPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQRQGFANDGRGEI WRKLIKPNRRQKS*CSTDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RRCSTTNIIKKIQDKKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGRAALFAGIPAACDQS PSLRQPISSEWSDGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YSLSVSVWAGATVMESPVWM PIASKFSIEQTMMQLSFLSRTTSI SYSFQPIDSSISNSLVGERSRPR AQISSNSSRL*AIPPLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIFFIATSKRRRSSALS IASAVAPIMVTPNSSNTP
24714	55082	A	24852	48	209	GLFQVGYAENCRDNNHSFSLH SVVIGSSSERVVAKK*PDADHF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASFAATLAIGKPVAFDASAE ERDTRGFISITIRPPFFGTANVT RLETERGGICSRSPWEVVS KI AWAEAPDPPGVITILGLKTQHAT /VSEVTSRFRSHYRQFDLDQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSKLDVFDLYNL AQKRRFERYQYALSVEKPM D FTGNDTYNLDKAPWPKNEA ELNALWDNVFSLAMTAFAREI DPHTNYLSRPNTEQFNTEMSLS LEGIGAVLQMDDDYTVINS MV AGGPAAKSKAISVGDKIVGV G QTGKPMVDVIGWRLDDVVALI KGPKGSKVRLEILPAGKGT KTR TVTLTRERJRLDRAVKMSV KT VGKEKVGVLDPGFYVGLTDD VKVQLQKLEKQNVSSVIID LRS NGGGALTEAVSLSGLFIPAG PIV QVRDNGKVREDSDTDGQV FY KGPLVVLVDRFSASASEIF ARD VVVGLCICLSSLDVWLCGL FCR CSVDAERTKRQGGKGEESR KR RRKGYELSYLLFGWSAVV LLF VSDAEQHRASRHGGNACQ QHP DVRHDEADGYPRQSHQLRL RR FRCFRPGRPLRLRRCQHER HDL PDDCRQVDRRRNGDWRGDDA
24716	55084	A	24854	100	671	
24717	55085	A	24855	852	1335	YFCFWTYPLLPVCM DRKAGK HGAPAGDLYVQVQFN SHPIFE REGNTLYCEVPINFAMA ALGGE IEVPTLDGRVKLV PGETQTGK LFRMRGKGVKSVR GGAQGDLL CRVVVETPVGLNER QKQLLQE LQESFGGPTGEHNS PRSKSFFD GVKKFFDDLTR
24718	55086	A	24856	326	471	PLQTHPAPQQRGHPIYQ HGQTV S*SCRRRGWSSISRPV IHHADAQ LMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPVIHHADAQL MP*PQIVYQHLKPPGIYRQQDR L*IPD*RPVLTIQDVGRP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPQET/CFQKSTNIAREKT LEQEFVSQLFKIGRRMCLTRE GKKLLPHIYELTRVMDTLREAA KKESDPDGELRVVSGETLLSYR MPQVLQRFRQAPKVRSLQSL NCYVIRDALLNDEADVGVFYR VGND DALNRRELGEQSLVLVA SPQIADVDFTEPGRHNACSFII EPQCVFRQIFESTLRQRRITVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGELIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCRMRRERLIRATRSCQF NILHEPRRADKRSASGSLRLQE FNYQDKPCMEIRIRTYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRKSKRDSRREETDT KKKTRDKATKREKDKEIEEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPAQ*NRHLQFAVKPP APVIVHPTLVDESHHSLHDKR RQHRPHHSVAHHGSRNSSATA TINALLGRVAQNAATRGTR
24723	55091	A	24861	935	1637	PQPPPLRREGAGLEKELGRR VRVKGSGCQPWICGKVPVFIPV ITEQESFQELI/RRTTTACESLGK EYEILMIDDGSSDNSAHMLVEA SQAENSHIVSILLNRNYGQHS MAGFSHVTGDLIITLDADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTASKMINRLIQR TTGKAMGDYGCM/LRAYRRHI VDAMLHCHERSTFIPILANIFAR RAIEIPVHHAHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTISGA KNAALPNLFAALLAEEPVEIQN VPKLKDVDTSMKLLSQLGAKV ERNGSVHIDARDVNVFCAPYD LVKTMRASIWALGPLVARFGQ GQVSLPGGCTIGAHIVMDKVS GATVTIMCAAILTEGATIEVFY FLPLAIGKFNELYPNIKVRILAEQ GTNNCMESVLCN\ESDFG\NMA NNVTNSSI\DTPL\VQRRPFVL\ ACRRDHPLAKKQLVEWQELVG YKMIGVRSSSGNRLLIEQQLAD KPWKLDWFYEVRLSTSLGLV EAGLGISALPGLAMPHPYSSII GIPLVEPVIRRTLGIIRRKDAVLS PAAERFFTLSDFCGPVPSEDNI FESPASQQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGKRSSVAVSWIGKVKT AQMVALLAWLLWRPPIWVEYA GIALFFVA AVLTLWSMLQYLT RVQICLISDRFGVIFSKRSKV NIVDSSRQEYLEEFYARYNVEL RAPEGFFYLPRSTTLIPRSVLS ELDMMVGKILCYLYLSPERLA NEGIFTQQELYDELLTLADEAK LLKLNNRSTGSDVDRQKLQE KVRSSLNRLRLRGMVWFMGH DSSKFRITESVFRFGADVRA DPREAQRRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGGRCQPISGDGVRIFA GILHGLDNELPLQEEVEGNLE QEGLPFPIRQSDALDLCSF SPNMYIDDGMKRDWPV ALQRRWRILPDHYGTEPAE GFAPHYCFSYALLVHMM DLEVGDVFWTGGDTHLY MDQTHLQLSREPRPLPKL PESIFDYRFEDFEJEGYD PHPGIK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFFKGRGSSWHMV\SQWDYV ADRFGTADLLPFTISDMDFATA PCIEALNQRLMHGVFGYSRWK NDEFLAAIAHWSTQHYTAIDS QTVVYGPSVIYMVSELIRQWSE TGEGVVIHTPAYDAFYKAIEGN QRTVMPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVWTCDELEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGHFFRFAGIAYQIV KQTTVGTTEITLRRYVVDGNR IPPRQDRQGDAFFGFATHTQQW HQVFKRQTDIQTANTATTVT QQAGFTIETRTPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTPTTRAT RRRRHTEKKRRKKRPATHVL MTATLIPVSRLATDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFVAA AMNPEHMAESGHRITRPEFPDY RELFRSDIKSAVVDISQCNT FNYLFRCFELQCLSRHGHSAYG VMQRRHSPMQETRIASLPLQRY RWHEDSVNRWFSVMVGPSVR VNEWFSAYAMAGMAYSRVST FSGDYLRQPLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLMEV/TRLR DTPILTFMKNLDR/DIRDPMELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRI KGLNNP/DLDAAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DG\FMAGDRSHVEEAY/PGDIL G\QGEMMKFTGIPNF/APELFRR IRLKDPLKQK/QLLKGLVQLSEE GAVQV/FRPISNNDLIVGAVGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEF KRKNESQLALDGGDNLAYIATS MVNLRLAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVGMGMHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIIVEKNLNLDLQTLT EEAVRLYGDKLTNANVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKTFIT RNQLTSNQSILMNLVDGPFKKL IGGWKFPLSQEACRIEFHLD FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRIHTI ESRCRVCGAHDSDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRTPNQPRQPGPKIGGISPAGSALALACGKRTVLFASLCTR TGGSQ LGE \PALVLLADQMLALDDQYTFLQRIPRSPYGLAFGPVPHLHYLHQMRLLDIAPIAFRAMSLAFPVNYLDAVRTGSICSNCNQRSNDSAMGISMNVSTLMRVRAIWVYAAYMERVLDNLLNNALRYCHSTVETSLLLSGNRATLIVEDDGPGIAPENREHIFEPFVRLDPSRDRSTGGCGLGLAIVHSIARGN WATSDHRS LTGTQPYARIVVFLVRLIFAFRVTQLTLQISFVR FVVVQNAFPGCPLGIGIDVHFY YAVAYGVDFLSSRTGTTVFDDLNTPDFDRCFAFMQAVGKGYTDAYLPIVERRKAMAYGERERNFQLYRRGRYVEFNLPSELAATVYQSDPNFATGCFRLYTSCNTFNMHKAATMLVRAEFSQGYQH QV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQFIEITFTRLPEVRIHHLQSPASALSCNHLLIRITQFNADITIGHLPVNRRVVTVLRDMRHHGDIVHPGVRRGVEHYAAMPDGPVKEIMEVRLFLAVFVGNHHSRRD SLPVQFVVHTNGDTYTFPGNNIRRDIGFKWRIAALMLHHFLIIDPHFVMSDRIETQHDTLACPNFRYKDFALIPERCRII/SEYLD RRTDRLKWCYAAFQ QGDQSQASNPMYAKAPV*VRWVHGYKALSEKGHLVYQRLYQIFQHA EYQTGTND AEISTKLCLFSSSL LLLSSSLQH SI PPNA CL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICNTSEELAANIKRLGDTVRLNAFHAHGVYGEAQSMGERHAGRR*AVG*CVKGARGE PVDISGAQL/RGCGVNALSGLRFGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLPLNLSS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSL NKQKDL SA QDKLVQQDLTDTLATL DKIDRI KEETVQLRQKVAEAEPEKMRQA TAALTALSDVDNDEETR KILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSRLDG
24748	55116	A	24886	2842	5034	NVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQRSREVILMADHS KFDAVEPHAVATLSCIKTIISDS GLPETIAQRYQRAGSSLPEAQP DREIEKRGPAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFV\WPVHTVTLL\LGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGVIA DYEERKAKIKADAEAAARKIGG NADLSESLLEEVASLVEWPVVL TAKFEEKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQQIISGNEKVVRPRL ADAEFFFNTRKKRLEDNLPR QTVLFQQQLGTLRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPDAHSEAPSPVSDMLSAL LLLTLVLAGMVRMAARLLMA KPPQAVNRGDIGWLTTSMPVIL LVMMMLAMGTHIPQPVIRIPGGR FHYSHPQGRDLP AQRSTWHD FCLQAPHLFRRNTVNVNSSSNR GEAILAALKTQFPGAVLDEERQ TPEQVTITVKINLLPDVVQYLY YQHDGWLPVLF GNDERTLN GH YAVYYALSMEGAECWIVVK ALVDADSREFPSVTPRPAAV WGEREIRD MYGLIPVGLPDQRR LVLPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*1 AVANMLLNQFQQSYTPMLHDL IVRYDGDHQQKSFGVQLPGKL RIVKLIQPVE



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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTQKRLSPATSHRSTCRVI LNQAYVTPSKCWPDVVEISFNF FHSEDEVVRHPVVARIYNAYEA WEEAEQKTMTPANQHAGGLV QCDKMLLQRRSREVIELSEQNA AQMRHVRGADMAMIFQEPMT SLNPVFTVGEQIAESIRLHQNAS REEAMVEAKRMLDQVRIPEAQ TILSRYPHQLSGGMRQRMIA MALSCRPAVLIADPTTALDVT IQAQILQLIKVLQKEMSMGVIFI THDMGVVAEIADRVLMYQG EAVETGTVEQIFHAPQHPYTRA LLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVVDGE PVLVRVNLVTRFPLRSGLLNRV TREVHAVEKVSFDLWPGETLSL VGESGSGKSTTGRALLRLVESQ GGEIIFNGQRIDTLSPGKLQALR RDIQFIFQDPYASLDPRQTIGDSI IEPLRVHGLLPKGDAARVAW LLERVGLLPEHAWRYPHEFSGG QRQRICARALALNPKVIIADEA VSALDVSIRGQIINLLDLQRDF GIAYLFIHDMMAVVERISHRVA VMYLGQIVEIGPRRAVFENPQH PYTRK\LLAEDPVAEPSRQRPQR VLLSDDLPSNIHLRGEEAVVALI KPGAQIGR\PQSWT
24755	55123	A	24893	134	595	IRTGRNESYKGDISRYKFVSAR ALRNEVRGGRCHKTIIRRVSVG KKVIGLKFRLVPVVTPEIVIP PAPVANDTLVAEVSAPQAND PTFNNECLA*FAVLSTPTAILISC PGRWGPAAGSECGVRGAHAHR ELALRAFSCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGK IIVPATEAENFARVLALAENYQ PLYAALGLHPGMLEKHSQVSL EQLQQALERRPAKVAVGEIGL DLFGDDPQFERQQWLLDEQLIL V\KRYELPVILHSRRTHDKLAM HLKRHDLPRTGVVYGFSGSLQ QAERFVQLGYKIGVGGTITYPR ASKTRDVIKPLASLLLETD PDMPNLNGFQQPNRPEQAARV FAVLCELRREPADEIAQAVLNN TYTLVNV
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDLGWLQC*NP*RL LLWKAPRSDK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVDNKGRL DHIELQPLAV/DASYPGGDFRK NAVYVPMW*SAHCEPEGRFAE TGSRRYGEDFASTAPGFERRAAT RKRVRKR
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADIIRD\EPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVH RWKN*LPLNLAPLLPRSGSSAPI RPPPSAQARQPMKSTYGVDRR HS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCR ARELEQCLEDIFYDQRKESVRW HLDLHTAIRGSLHPQFGVLPQR DIPWDEKFLTWLGAAGLEALV FHQEPGGTFTHFSARHFGALAC TLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPPLRYR VVSQITRHSPSFEMHMASDTLN FMPFEKGTLLAQDGEERFTVTH DVEVAKNAITEIKTQFEKEKLA QDRIKRNQ/LDANIQRNLNYSLDI ANAAGIKKPVYSNDGIERKLEI EKAVIDVAELNGELRNRYLV EQLTKAHVNDVNFTPFKYQLSP SLPVKKDGP GKAIIVLSALIGG MLYCRVCIKRNADSPVFSGFS DPNVVLIAAVFIIGDGLVRTGV ATVMGTWLVKVAGNSEIKML VLLMLTVAGLGAFMSSTGVVA IFIPVVLVSAMRMQTSPRLMM PLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSSFSVTPIGL VVLVLGILYMLVMRFMLKGDT QTPQREGWTRRTFRDLIREYRL TGRARRLAIRPGSPMIGQRLDD LKLRLRYGANVIGVERWRRFR RVIVNVNGVSEFRARDVSLIAM SAADVDLRQFCSERLLEPDGIA RFSLIPESELIGESVREIGLRTRY GLNVVGLTRTGVALDGLADE PLLLGDISWLWALESDRYAAM LGRSRSLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNR YWPGRSGHR*SPHAPIIGTQFLQ ALFQTDQFVFALSACGRRHP TDGRRQNPAVSGHSAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLKRPDSNIDHRRVPNLET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDFGA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHNTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNIKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRACKTVM AVVFAFACAGLLISFILPQKWTS AAVVTPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLEEYLRSSPYVMDQLKEA KIDELDLHRAIVALSEKMKAVD DNASKKKDEPSLYTSWTLSTFA PTSEEAQTVLSGYIDYISTLVVK ESLENVRNKLEIKTQFEKEKLA QDRIKTKNQLDANIQRNLNYSLD IANAAGIKKPVYSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNRQYLVEPITK AHVNDVNFTPFKYQLSPSLPVK KDGPGKAIIVILSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFSNSSHPVSNPSIQLSSITL PLVENESRARA\VKDQMDAIDH QTGVRPLVFYSIVLPEIRAILQS EGFCQDIVQALVAPLQQEMKL DPTPIAHRTHGLNPNLNKYDA RIAAIDYTLAHDGSLRNLDQ AQVILLGVSRGKTPTSLYLAM QFGIRAANYPFIADDMDNLVLP ASLKPLQHKLFGLTIDPERLAAI REERRENSRYASLRQCRMEVA EVEALYRKNQIPWINSTNYSVE EIATKILDIMGLSRRMY
24772	55140	A	24910	77	434	EKKRGREDKPGTMATFPPATSA PQQPPGPEDESSLDLSDLYSL AHSYLGPLIMPPTSPLTPALV TGGGGRKGRTKREAAANTNRP SPGGHR/ERKLVTKLQNSERKK RGARRLRQSWR
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMAFPATSA PQ\QPPGPGGRDSQPWMDLL /YSLAHSYLG\GGGRKGHTKRE TAANTQPPQPLAGHERKTVD KLQ\NSERKKRGARALRQELEM RRRPWTLTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKKMTTQTVSGRRYFTKAW LMEQKSLIALLVLIIVSTLSPN FFTINNLFNILQQTSVNMAVVG MTLVILTSGIDLS/VAASIVGIEV NALVAVAAALALGAAIGAVTG VIVAKGRVQAFIATLVMMLLL RGVTMVYTNGSPVNTGFTENA DLFGWFGIGRPLGVPTPVWIMG IVFLAAWYMLHHTRLGRYIYA LGGNEAATRFSGINVNKIKIIVY SLCGQLASLAGHIKVARLSSAQ HTAGTGYELDAIAAVVLADDR QSGGDFAGGAGRQQKAVITTT GHLEYEHEKTGYPGFRCCAKR HRQCECDGKRHHRAGGLHA
24780	55148	A	24918	1	1286	MHEREPGLRAALAGQLEFRVG LGLGVWTLRLMELLRQRLELV VYTASDGQEYEMVSRLNWN YLVLEDVHIILPDQMRGITGCY ATHPHERRLHAGTVHRQNIVN NPPDCVPRDAGEAEVAPDPSLA SLQLQTPELPGLISCHNSIQVSN EARLFELLICQWRDFRKRIVAA KSMQGRELEGGQRGQDKATNP FRVLALKGSGDPDPHGAGRQG SDLLHPVSDAQVLQHFFQRRRA LLSSPWDYHDVVGLCAQEP CGYIMELFIIKHQCSLAQTAGSLAP EQKKELEMTVRYIYISSADLTAE KFATAIRN/HWHVENKLHWRL DV*RQFDKHCSTADSTRILASF VRHVNAALDVRVVFASGSETT HGDGARRYLRCDVDWRRRT AVAQADKSARACHFYAGYH HHEHFADPVSVGAKYHTVFST

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24781	55149	A	24919	417	861	AKGPCPDRNHSSDDKDVIADG KTLRHSYDKSRR\RGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGKIITTDAMGCQ KDIAEKIQKQGVIFSLCPASIIDD KKVTDLAVAVQGTCLKTGSGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISIIPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYGDFENGIPVHDTIAR VVSCISPAKFHE\CFINWMRDCH SSNDKDVIAIDGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDIAEKIQKQG GDYLFVAVKQRNGAVENRAKTQ TRIAFGDHFFRRQVSQRIRLFCH RLATQFAARLRMFATGQPMN GLRLLLFIVNKQAALLVNLDA QMAAFQQLPGRGRQATVRRE MDLCAFAERMGLPVSRPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLPLHKTGG HAAAVVSGHKISQAHAMRLCA VETTKLDATGINHFDAAFAGHR FESSVDCACSATVSFITFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVTTVVVA VRPSSFYILCSHKKKRTLHTKR EKTVDRRKEYETRAKRSETDT

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24783	55151	A	24921	110	1282	SNTPYI IKENK MELKKLMGHISI IPDYRQAWKMEHKLS DILLTI CAVISGAEGWEDIQDFGETHLD FLKQYGDFENGIPVHDTIARVV SCISPAKFHECFINWMRDCHSS DDKDVIADGKTLRHSYDKST/ RRRGAIH\VNNAFSTMHSLVIG QIKTDKKSNEITAIPPELLNMLDI KGKII'TTDAMGCQKDIAEKIQK QGGDYLF AVKGNQGRNLNKA FE EKFPLKELNNPEHDSYAMSEKS HGREEIRLHIVCDVPDELIDFTF EWKGLKKLCVAVSFRSIAEQK KEPEMTVRYYYISSA\DLTAEKFA TAIRNHWHVENKLHWRLDVV MNEDDCKIRRGNAAE LFSGIRH IAINILTNDKVFKAGLRRKMRK AAMDRNYLASVLAGSGLS
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	MTEIEENMLLPISGQELPIRWLA QHGESEKPVTHVSRDGLQALHIA RAEELPAVTALAVSHKTSLLDP LEIRELHKLVRD TDKVFPNPGN SNLGLITAFFEAYLNADYTDRG LLTKEWMKGNRVSHITRTASG ANACGGNLTD RGDSFVHDLTS MARYVATGVLARSMGLVIYSFI QHTLTLEEYREITAF LFREFTHA AAARYTGEQETLPLSPQWILRQ CKEVASLCDGDTFSGEQLNLM LQQREWREGFLAER
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIARFLPRLANDQIEEFTW YVNHFTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RSWNRLYTRLMAENGWNLVE VKPWYVVGNTDDNPDITKYM GYYQLKIGYHLGDAVLSAKGQ YNWNTGYGGAELGLSYPIKH VRLYTQVYSGYGESLIDYNFNQ TRVGGAIGVNVAQAEVLNLE SGAKQVLQETFGYQQFRPGQE EIIDTVLSGRDCLVVMPTGGGK SLCYQIPALLNGLTVVVSPLNS LKEKSANPFETFAAFAHAFHW VIQAIGMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLIRALESGS RVGMGMRMHVQQQALLEEM AGQPGVLWFAVTDAAQGIILHS DPDKVGRALYSPDEMQLKPE ENSRWRLGKTETTPALEVYRL FQPM SAPWRHGMHNMPRCNG KAVPQVDAQQAIFIAVDASDLV ATQSGEKRNTLIILYALATVLL ASVLSFFWYRRYLRSRQLQDE MKRKEKLVALGHLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQHVQIRRFHAHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKLTPEQAE QIKTLLQYSPSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVDQEDADGRFATPEA KAANDKGRKFFADMHRKDLH DDAEWMAKQVYLVNNGNLLG VAALGLDAVPIEGFDAAILDAE FGLKEKGYTSLVVVPVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASSRLWL QIITQNKLFHRLAFTLQGIIVNIQ AVFWLQKGTEAADILTTCACL WIMMYALLSVFSLLDVILILGQ KFPAAVAFQLPLKGNIFQGIKLMGP ILVGILMISLLIGQSPAILISGLGA MAAVLMLVFKDPILGLVAGIQ LSANDMLKLGDWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSFKNWSGMSASG GRIKRSISIDVTSIRFLDEDEM QRLNKAHLLKPYLTSRHEINE WNRQQGSRESVINLRRMPNIG VTFCAVLNKVYLGTHVPRIRKDM TLMVRQLAPGDNGLPFEIYAFT NTVVWLEYESIQAIDFDHIFAIV EEFGLRLHQSPGTGNDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLNKLLGNELVA INQYFLHARMFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALELDGAKNLREAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLETELDLIQKMGLQNYLQA QIREEGKSIYQEQTAMKRPDY RTLQALDAVIRERGF/EARGTK AVHYTISRHTAH*ATGKYVRAA AVGAYRTAAPDGTRAKTAGTA APGGVAGRRVAGR*TNRFDSA AAFTGGQRRQSGDVVASCTGS CVG



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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLLV NQSPAIFYPGKIAAIWQNPRHV ESGSM*TL/IDSD*VSPTECLSPR HHYMPFEEAARGYEIFEKREEE CRKVILVPGAQSAEAAQKAVS GLVNAMPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSPMTRNSRNGKHDYKPPPR KRRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPTNDPAEPHQTRHDSR QPHNTPPAYAEVLAAALLTTDT NVTRRRRLRYMQPDTKLCHSAG KSIYQEQTAMKRPDYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRIKQLENMFGQPLLVEDET RTQERLRRGEVVGAVSIQHQAL PSCLVDKLGALDYLFVSSKPFA EKYFPNGVTRSALLKAPVVAFD HLDDMHQAFLQQNFDLPPGSV PCHIVNSSEAFVQLARQGTTC MIPHLQIEKELASGELIDLTPL FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGD FGHEFMGEVVETGKDVKNLQK GDRVVIPFVIACGDCFFCRLQQ YAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGGQAE YVRVPKGNVGPFPKVPPLSDD KALFLSDILPTAWQAAKNAQIQ QGSSVAVYGAGPVGLLTIACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFEDESDPAQSIIETA GHRGVDAVIDAVGFEAKGSTT ETVLTLNKLKLGSSGKALRQCI AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLGELLPLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRPLRHPVAYRATLK*NR PAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVVRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGKRK*KRWALLCCPGCN I*RHFCHHN*ERYFWIYWVEST GAVKHLQNTGHWLNAGALPV RRPRKSVTGSIRQVSVPI SAR ALLACPCGQCAGYATQFVMKS ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GSPSVSLATSSCSIKVQNPGISR VVAGSSAHSNVSPGCILRTVLR TIITGSGQRRPSASSVWSGHTSC VFRTANFSSGMVNLSVSVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNNPVFHNH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSHTRY WRFLDFPTLRGGRWMR*SGEK LNPISTPLRANCLALAQRATRL APMSFTWGMPTSQPDCAVPGR RALPPELLCLQRSSQSRFAGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWLRSLRRGPQEKS LHN RVARTISWPYQARHPCRTLLGG HGFFLHIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVNISPGLGKTHN YRQQHCGITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRWVI FPQPKALTPSNLHWKTA*LWS* KTLSFVCWIATVLPARFWKLT D PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSKFRVNRVFGQVLLIE FSILLDGGRTGLGHSLSVWCISG DCSSFLQGKPTSLPLRKPSAIIICS DSLSGSADLLRNHNHFVCTAADT FTTDITPEAGDARLIGIAQTVRH LEDPMRAWKSIHKSCIELDPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRLVRIQIRTTFFA AVLHVPTPWSRAIDAAALLTVI DVKVLTAACACQACRTLALRVA QVIDRCSNPGDIMSSVARRYWF ISRWSAKRDCAVSYDQDPGQA QRSCRSCLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCL\HIWVITACWICANSSG FIARNL/GLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFR\R*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTEILPLHVVEDGTDS LYCLALSHLRGRLSLRWREL PRGLGVNVSWCYPFKAQGQCA AEITDKAGQREIFGFARVKENA GYVIYECYQDDGDKLIRELPF SSLIFARQWFVVGELLQHLPE DRITPIVGMLQGVVEKGGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFFIAPGCCYTGYSYSNNNSP FYMGIPLKFPADAPSRSTLKLE EAFHVFIPEWDERLANGMW AVDLGACPGGWTFQLVKRNM WVYSVDHGSMVQ/SLWITTGT CWGTRFHSARGQKFPEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTKAKRVKAVLAWS KEEPWLSEWSEEVLEMGYKKL GDFSTAGAILETEIRPSPASAFTL DSQPPESNNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPLWPNKSGFGSD LTLKIGISSPDIALERLYEQAR KLSGKFRALSELDESARSGVLK VLCAFAYQDYSRSAASTRKCD CCDGGGFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVRVKCKPCNGKGVIS NSCRCHGKGKVLAKHESDRRG VPVMKACDRCGRGYARLKFS SVMRALILLRRLKKTAAAYEQL QPLFEELVAECKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLLFESAMQTGVNAG NPVAW*KSAGYGHIKLYDAKN RL\LVQSTALWASQLVQYLSTF FRKNLKRPFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLDGTGRVAISARREGQHML EIEDNAGLYQPVTNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDLHLFQQV NRFSSGFPTYWLMMAHVVH LKTYSTCRIEGGHRFLKDRHS CAAPLTKLFFPRVKNIFSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAMVAKVVIDIVVVV GVEMIRVKVVAIVVEVVVVEV VVVMVAWWW****WW*/DMG EARWWWVEYGVWEVEPEIILNA PQQYLLAGIGDTLAKWYEAVV LAPQPETLPLTVRLGINNAQAIR DVLLNSSEQALSDDQNNQQLTQS FCDVVDAILAGGGMVGGGLGDR FTRVAAAHAVHNGLTVLPQTE KFLHGTVAYGILVQSALLGQ DDVLAQLTGAYQRFHLPPTLA ELEVDINNQAEIDKVIAHTLRPV ESIHYPVTLTPDTLRAAFKKYS QSCFVIRLGGDFIHQLAENHIVI FVNNHNGTRCQTFQWAINCH TVSLQKFSVRKFLSDLFAIGGR RGVRPPTEAPGHQKSDNQAHV SVSFDGLDLVFFVNNQWAGVV FCFDLFSRKRGRFSVWRNKGFG RYCQRLANFRDRQAFQLLNQIH FTRCKQVDNGGTEFKATHFLAF QQCHRTVVFPGRPAIKTRVERL DRYRNRMEKSNGQANLRVHG GTWEKLVQLDSAGMVNRVSS VGAPLREPIPTGKGAKEDTWG NLSSNDPLLEAFGGQFGIAISMH QTLATRGGKRNRARPTTRPRFHR GTNPRGIAPHIGTANARYSTGH CPVALPFGLRGPPLARENVATA TKGHESASRETEVVAVAKLTSR VLLICDATHALPIQVLRNDIRVI AAGNGCTDDLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAGAD *RRAAGTGAGRAKRRGVGIHR CLADPFLADCRNAGLRGAALC GTAAASGK

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24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VWIYGKRAIAAAQTKLPAPFGL PGAKHILFRGHCSSESDVQQLA ESGDDRSVVIGVGGGALLDTA KALARRLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEILNAPQQYL LAGIGDTLAKWYEAVVLAPQP ETLPLTVRLGINNAQAIRDVLL NSSEQALSDQQNQQLTQSFCDV GDAIIAGGGMVWGLGDRFTRV EAAHAGPNGLTGLPQTEKFLH GTKVAYGILV\QSALLGQDDVL AQLTGAYQRFHLPTTLAELEVD INNQAEIDKVIAHTLRPVESIH LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRENDELIVGSEDGIDPVSLA ALTRKVGRKVRYVIVLRGQIVT GLRHWYARRRGHDPRAMLYN AVQHQWLTEQQAGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTEQVAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQRALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVFLHRMQH QWRQRELVHNMCFVIACAKRK RAPFVQAAEEV\RPQGHDEFP LAIWQTGSGTQSNMNMNEVLA NRASELLGGVRGMERKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTNEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPAASRGTSWRYSGG YWTKYPSGVCASRSKMNWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCC Q

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24834	55202	A	24972	166	365	NPFSNSPWETYPVAFIPLALFM GIYLRYL RPGRIGEVSVIGLV/SP DFRHYLWRLGGRKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMI LPPCACS*ST*ESIRPAVVGP EGITFRRFGRTRVVNRMIFDVL RHLFTVIHPLFQFGVTYITDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQEREAEKYANPIPSRE FILEHLTKREKPASRDELAVEL HIEGEEQLEGYAPVLAPESGILI MRPTLTMPALTKFVDGTGPVW TGNLFPFLFITIACGAVSGFHAI SSGTTPKMLANEGQACFIGYGG MLMESFVAIMALVSACIIDPGV YFAMNSPMAVLAPAGTADV ASAAQVVSSWGFSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHHLRS DPGKSENGRSTGRRRCTGTSVA G
24839	55207	A	24977	3	982	GDAEPFVFLPR\RKDHEYSLDH YQHRFYLRNHRHGKNFGLYRT RMRDEQQWEELIPPENIMLEG FTLFTDWLVVEERQRGLTSLRQ INRKTREVIGIAFDDPAYVTWIA YNPEPETARLRYGYSSMTTPDT LFELDMDTGERRVLKQTEVPGF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLL VYG YGSYGASIDAFSFSRLSLLDR GFVYAIVHVRGGGCKINLVVD NGKIVRAEAAQGKTNQGTLC KGYYGWDFINDTQILTPRLKTP MIRRQRGGKLEPVSWEALNY VAERLSAIKEKYGPDAIQTGSS

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24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLIITDVDLGT TVAGIKGMIATGEGTTEWNSV MVAMLLTLIPPVVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPSGCGKSTLLRMVAG LERVTEGDIWINEQRVSELRLIG YMSRKMGGGKNRREPHIDVCR GIFGLSITPEFSEPLAEDFLSRRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPVT LLPYQVWRHAIGTPASQDKLIY EEKDDTYVYVSLHKTTSKHYVVI HLASATTSEVRLLDAEMADAE PFVFLPRRKDHEYSLDHYQHRF YLRNHRHGKNFGLYRTRMRDE QQWEELIPPENIMLEGFTLFTD WLVEERQRGLTSLRQINRKTR EVIGIAFDDPAYVTWIAYNPEPE TARLRYGYSSMTTPDTLFDLDI DTGERRVFKPPE/V/PGFYAA/SY RREPRW/IVSADGVKYSFV\APR QHFRRDAPVLSFLLFSDRAPFR NNGPRVVLLGYYHPELLGVT YSQLSVHEARPKPLPIPHSRHRH VPTRNEMAQEKERPAGSQSLFR GLMLIEILSNYPNGCPLAHLSEL AGLNKSTVHRLQLQSCGYV TTAPAAGSYRLTTKFIAVGQKA LSSLNIIHIAAPHLEALNIATGET INFSSREDDHAILIYKLEPTTGM LRTRAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTKPAGAIPTSTSITRPIP FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKGIGVHHNAANLVPW MTKFFQRFQIAFQSRGAVFHQH HHAGYAGQRGKTALAEQRLVF GFGINKQMRAVPLIGEVYQFSG *CQRQSFTADGFTDSNAFNIS GNSTARDKLFIAGYGNRYFHC GVNAQIIFMQELGDFRHFVIF/A QKGNEYHGDTRISPGFRFRGHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMP/SF*QONRKFAV KRAGVATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIQPFDDGF IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	



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24845	55213	A	24983	1	2180	METLNLYADLRSVTGEALLL DEPGVGVDPISRRELWQMVHE LAGEGMLILWTSYLDEAEQCR DVLLMNEGELLYQGEPKALTQ TMAGRSFLMTSPHEGNRKLLQ RALKLPQVSDGMIQKSNIVGI KDTIDSVGHLRTMINTVKSVRP SFSVFCGYDDHLLNTMLLGGD GAITASANFAPELSVGIYRAWR EGDLATAATLNKKLLQLPAIYA LET'PFVSLIKYSMQCVGLPVET YCLPPILEASEEAKDKNRPLVD LEHAALQVGKGIIPPLREYGAS EVRSVTRAFNHMAAGVKQLAD DRTLLMAGVSHDLRTPLTRIRL ATEMMSEQDGYLAESINKDIEE CNAIIEQFIDYLRGTQEMPMEM ADLNAVLEGEVIAAESGYEREIE TALYPGSIEVKMHPLSIKRAVA NMVVNAARYGNGWIKVSSGTE PNRAWFQVEDDGPGIAPEQRK HLFQPFVRGDSARTISGTGLGL AIVQRIGDNHNGMLELGTSE GLSIRAWLPVPGTRAQGTTE GAREDAVEFFAKLGFVNQGEIT TPTTTPIRHFLMIKPVALDDIL HRGDWCAQLQQAWEHIPLSE KMGVRIQQYTQKFITMPETG NQNPHTLTFAGSLFSLATLTGW GLIWLMLRERHLGGTHLADAH RYSKPISGKPHAVADLGALSGD LDRLARGRKARVQMQVEIFGD
24846	55214	A	24984	875	1150	
24847	55215	A	24985	1507	1974	
24848	55216	A	24986	1	1006	
24849	55217	A	24987	1491	1703	RECRYATNGKNNGCCRSAGSD FSSRLRYVR*PFIYTQ*SCGIGH CPGTDIRAKIRRTARFIKNYGT CPS
24850	55218	A	24988	1	1758	
24851	55219	A	24989	1773	2165	PSRGVEVNSGWNWQATNRRVI RNFDDLDQLIPGTARNAQTCIF NFVTVMTLNNCRRIVQLANQ/ DYRQPTGTAVAETHGTAEIALL ATNFNVAVFIAPLGNQRHNRVL TVWHKFRRVGVLVHVGNMASVI N
24852	55220	A	24990	1	141	SPGKIRPVIAAAMKQIKEFMSP DSDFFRYMKTPTSATR*YNDG TGQ

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24853	55221	A	24991	1430	1933	PIIVCMGSLTMPDSACMAPFPPS AVRRWNSSFPTFSAHTSSPCA CYPRCYRTVKGVL**HHR*W/V LISTPGRGAYAASKYALEAWS ALRMELRHSGIKVSLIEPGPIRT RFTDNVNQTQSDKPVENPGIAA RFTLGPEAVVDKVRHAFISEKP KMRYPVTHGDLWR
24854	55222	A	24992	1318	4265	LAIVALFLDLQNHIFSKGFWPS DKFYAAKVEEQNRHQRYHGT SYNLEPDIKSSPGGLRDIHTLQ WVARRHFGATSLDEMVGFGFL TSAERAELNECLHILWRIRFAL HLVVSRYDNRLLCVHPTLLTTL DIHGEAQIWRREVSSRYGQYPK AQAAQPDQLMSDYFFRVSLAM QNKTLFLSLDDTLVNNALQTLN KTRPAMVDVIPTDGIVPLYINPQ GIAKLLRNETLTSLPKNLEPVFY NAAQTLLMPKLDAL
24855	55223	A	24993	1	454	MGFDDTRDRALFEDSAMSQQP TVPDLRLWLLQTFKYQKNIRI* STPRKKPMRHSIWNIWGSRRC WSNPKRTFMSISVRGNMAAIM SFHTSAVMRSHCSILTITIKSRW ATLNTLILR
24856	55224	A	24994	65	330	
24857	55225	B	24995	1	1998	
24858	55226	A	24996	1175	1877	QQVPQKGPGRAKRHLHAAGW HWHQRDRCPPEKNVRQ*RRYR AVRFIII
24859	55227	B	24997	1	3117	
24860	55228	A	24998	1888	2412	ARFKHVGDGTVTHRLFRRAAQ IVRVV*RAVSHRQHFTGVDIHQ HGATRFSLVKGHRIVQFAINQR LQAFINTQRQVVRSLAVSRRNI FNYATIAVFTHNALTRLPGKPI ETLLNALNPLTEHAARDLEDSP VRITAYIEDVDALAQAGADIIAI DGTDRPRVPVETLLARIHH
24861	55229	A	24999	1	2457	

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24862	55230	A	25000	1	3019	MAALRQSFWSQLFDRVHIGLD FFDASINRIA A W V I G T R N M K K A LLRALLEPTAELRNWKRRITL RVWHCWKSRNRCRGRSGKCI ANVTIRQQDHQIETVFINQRLH ERMFPFVLFAERLSGDEDLGL KAPILEALNDLGYEKPSPQAEC IPHLLNGRDVLGMAQTGSGKT AAFSLPLLQNLDPCLKAPQILVL APTRELA VQVAEAMTDFSKHM RGVNVVALYGGQRYDVQLRA LRQGPQIVVGTGPRLLD
24863	55231	A	25001	60	545	PSPFTAGASMAVERSTGHEGE LVLETLVIDGDENT/CAGTRRSL RANA*CLFHPFRAGAEKLAEEV WFCRYPHCGCEQNTTTEEQR TEWMVTESLADFLDPHDPGKT VEGYAPKRARNRNRADHRQ RLRHRTRKKQTHGQRRRHRPE PAQRQPQTGTTD
24864	55232	A	25002	1410	1575	
24865	55233	A	25003	200	691	
24866	55234	A	25004	1336	2028	
24867	55235	A	25005	1	345	
24868	55236	A	25006	671	1204	RTSDKLPFCRRSRMENLARFLS TTLKQLRQQRGWSLSRLAEAT GVSKAMLGQIERNESPTVATL WKIATGLNVPFSTFISPPQSAT/P SLFPYDPQLCFEHLAIQMASGAI SESTPHEKGVIEHVVIDGQLD LCVDGEWHTLNCGEGVRFAAD VTHIYRNGGEQTVHFHSLIHYP RS
24869	55237	A	25007	2251	2466	
24870	55238	A	25008	181	626	WQNFDTCGGMDLKLDAALR FQQEALNLRAQRQEVLAANIA NADTPGYQARDIDFASELKKV MQRGRDATSVVALTMTSTQHI PAQALTPSTAELQYRI/PANPSL DGNTVDMDRERTQFADNSLQY QMSLSALSGQIKGMMNVLQSG N
24871	55239	A	25009	57	278	
24872	55240	A	25010	171	532	KPVQFAIADGNNQPLALLNIHL PVMMLAIAHGPLLPAFPPELLV LFDDS/PLSSRVLLINAFSGGSDT AMRRAGKGAPAFLLPELPIITV VSPFLPQSSPRRKPIMSKRIPSAV NQRNPRQ
24873	55241	A	25011	1	648	

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24874	55242	A	25012	158	514	VLQLIKAVWTQRTQKPSWLHP VDSAPGLQMELPASPVPCTCTP QPLGGRWDWALWSRGWRLLR RLGPHRSPRRS*GSGLWPWPAQ KGAPIVQRWAKGLLKCHQSGS PGRGGAESERGL
24875	55243	A	25013	1	693	
24876	55244	A	25014	119	304	DRRRCACHKITVIPKRMTIAGIRL PPQTVNI*LGNFLRALIASTAGI MTAQMVAHSPAPPPI
24877	55245	A	25015	361	540	
24878	55246	A	25016	191	446	AKRRLGVYDADCCSIDKTQSLS ACTTRNCGAYSKCLCGKYAKP VGGIPQLQESHVR*CCNVMEL SPCSDFT**HPPGAVSQPQT
24879	55247	A	25017	1	2259	
24880	55248	A	25018	1	1170	
24881	55249	A	25019	3	1240	
24882	55250	A	25020	1	1259	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRLKKTLLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLETSRRL ATAERVARSPITITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQLRCLQPFCTQ DTRDRPFQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRRREIRDA TLLRLGLAYGPGMSLREVT WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGK/QIASCRWNSNQCARGR QR*MATTYGI*SSYLSVH*F*AN RQQR

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24883	55251	A	25021	803	2061	AKPAARGGILAAPVRDTLFLYF RLKKNQRQEGFINTYPWPKKP GIFYMCVPIKGANAQDVA AFC VTARGRQNCLWESIARGPALIN NRGAARGRCNDRVVEVDHGFA VLTFNFQGVSPGEFTQTVDFHD FAAFRHTSQTGQLIDHFLFPGT NLVDIGFRFAEDDTVFSQRFGF FDNFCYVQQCFRRDTADVQAN TAKGVVTFYDYGFTYWKV LDPGSEVVAEAGDGASAILAH RLDIDVILLDLNMKGMSGLDTL NALRRDGVTAQHILTVSDASSD VFALIDAGAAGYLLKDSDP EVL LEAIRAGAKGSKVFSERNQYL REREMFGAEEDPFSVLTERELAD VLHELAQGLSNKQIASVLNISE QTVKVHIRNLLRKLNVRSRVA ATILFQSAAFRSRFRATSDNV
24884	55252	A	25022	1	1569	
24885	55253	A	25023	2151	2709	YLREASETARRQFTLPVILYNF RDLTGQDLTPETVTRLALQEN IVGIKDTIDSVGHLRTMINTVKS VRPSFSVFCGYDDHLLNTMLLG GDGAITASANFAPELSVGIYRA WREGDLATAATLNKKLLQLPA IYALET PPFVSLIKYSMQCVGLPV ETYCLPPILEASEEAKDKVHVL LTAQGILPV
24886	55254	B	25024	1	1201	

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24887	55255	A	25025	1	2209	MIGEIRDGETAEIAIKAAQTGHL VLSTLHTNSTCETLVRLQQMG VARWMLSSALTLVIAQRLVRK LCPHCRRQQGEPIHIPDNVWPSP LPHWQAPGCVHCYHGFYGRTA LFEVLPITPVIRQLISANTDVESL ETHARQAGMRTL FENGCLAVE QGLTTFEELIRVLGMPHGDGAA MDREENELGVSCIAVPVFDIHG RVPYAVSISLSTSRKQLYAGLP VWCDGSRFFAQKARAIKCKQW GYVGAKSRQRWLFYAYDRLRK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERYNLNL RQHLARLGRKSLSFSKSVELHD KAAGGVPVLVRELLKAGLLHE DVNTVAGFGLSRYTLEPWLNN GELDWREGAEKSLDSNVIASFE QPFSHHGGTKVLSGNLGRAVM KTSAPPVENQVIEAPAVVFESQ HDVMPAFEAGLLDRDCVVVVR HQGPKANGMPELHKLMPPLGV LLDRCFKIALVTDGRLSGASGK VPSAIHVTPEAYDGLLAKVRD GDIIRVNGQTGELTLLVDEAEL AAREPHISELSAFTFGTGRGYSA AFGVKCPFRKRALSDPCYAMR EVADFLINKGVDGLFYLTGGGE FSQMNTAQRMALAEAAVTIVD GRVPVLIGVGSPSTDEAVKLAQ HAQAYGADGIVAINPYWYKVA
24888	55256	A	25026	1	3395	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKYIPCSWLGRINIVKMAILAK VIYRFNAIPIKLPMTFKKELEKT TLKFIWNQKGAASRSNPEPKNK LEDHITNSTIYRLSTKSCSVSGL KQTLLESEALTSYSHRVFSAW DFGLCGDVHVRRLQRRIILYELK GQVPALLDDGTLLTEGVAIM QYLADSVDRQLLAPVNSISRY KTIEWLNYIATELHKELKFSFH WSTTSKGLGM

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24889	55257	A	25027	145	681	FNGATQRIFDARGKPSTYIGSIQ HVNADVDQRATTLQFFIGKDT AGNAAATQGAGGGNVNLSQN AVGHLFTQLLRIERKTMVKVV GQHLAQFARGIDISRACYHMA ARFQCHQGMFVMKTVR*ADA NHIRFHCQQHGLRIVPHGCIPVF FCQRLPLGKAAVTDSYQFQIRC GCSSTKH
24890	55258	A	25028	696	953	LSGLCSVRRAYPGGRSCPGVP* FVGLVARRPGGG*GSCFVLLHP QRS GTGGCL*QPPFPAGAGRK IRECIRVGRSAGHAAGGET
24891	55259	A	25029	3	506	RGKPSTYIGSIQHVNADVDQRA TTLQFFIGKDTAGNAAATQGA GGGNVNLSQNAVGHFTQLLRI ERKTMVKVVGQHLAQFARGID ISRACYHMAARFQCHQGMFVM KTVR*ADANHIRFHCQQHGLRI VPHGCIPVFFCQRLPLGKAAVT DSYQFQIRCGCSSTKH
24892	55260	A	25030	291	560	
24893	55261	A	25031	63	404	
24894	55262	A	25032	660	1073	LSHECSFWLTNQLVSPRAQTVS GELQPAYAHGVLCRQYPSAFE KASETPQSSNPCSSYTIHPTVE NFQTCRNQHLSKGCLINAGRA GPSPGTGGWGELEVA A AARLQ GAWKRHLQSSRPPGQALFASPP *WTGSVQ
24895	55263	A	25033	272	511	GSDTALPSAIAAPLLAAMAWLP PRERGTLAH/QVLEHYQLAQLP VSAL/QMPLHCPPQAIAHHQQL/ EQQALASLQNWGVFHV
24896	55264	A	25034	1	3300	
24897	55265	A	25035	1117	1376	PPPIGLTYSSASPLSLFCTVRKP FSRSCW*QTNSNPISSCPELVTP SE*L*PRRSIRLDSLAVRGFAS RIWLSSAITFPGSLA
24898	55266	A	25036	207	427	DEHLQQRKKPLFLNYGRTEQA SVK*RISWVQNPERSSLC*GILA A*NPMSVSGL*LT*HCLSARRY ELVCQPK

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24899	55267	A	25037	2012	2547	LKFARPKLWGIFRNRQYHHML ER\RSQAIDAPALDRGAALGAL MRLEHPNASAEAAALTMLAQLS PAQSGEALHGLLALARHQLAC QPAFIAGFSSHLNQLSEADFINA LPDLRAAMAWLPPRERGTLAH QVLEHYQLAQLPVSALQMPLH CPPQAIAHHQLEQQALASLQN WGVFHV
24900	55268	A	25038	1	150	DKASRGRSRQQS/CAVLQPLLVI PRQT/WVWSGPPANSSRPGEEG PDC*KEN
24901	55269	A	25039	1	150	DEASRGRNRQQS/CAVLQPLLVI IPRQT/WVWSGPPANSSRPAEEE PDC*KEN
24902	55270	A	25040	96	389	PCLSP*LYPSGVHKSTFIYGFYN T*PCTSQSLFWQHSC*GSITSSS YFYLLPEEGTGSNLCCSAASAG DTQANRVWSGPPANSSRPAAE GHDCWKEN
24903	55271	A	25041	1181	1364	VSLGNIKFRQTGAPLGQSFQRK EQSAIFAVLQPPLVIPRQI/WVW SGTPADSSRPAAEGPDC*KEN* RVNRQPTWEKIFPIYPYDKGLI SRIYKELKQIYKKKIKPPHQKV GKGYVFSKEDIYAANRHMKKC SSSLAIREMQIKTTMRYHLTPA NRGIEIINCPFLDDAASCIDPTYS SNIFPPVNLWSGLPMKPKEVKI KRQKKEHLLKDRDFSQEPIMA LRTVILEILMEKEMDNSQRECIK DILTKHLVELSILARTFKNTQLP ERAIFQIKQYNSVSCGVSEWQL EEAQVFWAKKEQSLALSILKQ MIKKLDASCAANNPSLKLTYTE CLRVCGNWLAEETCLENPAVIM QTYLEKAVEVAGNYDGESSDE LRNGKMKAFSLARFSDTQYQ RIENYMKSSSEFENKQALLKRAK EEVGLLREHKIQTNRCPSTGTL PEEGTVSNLCCSAASTGDTQAN RVWSGTPADSSRPAAEGPDC



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24904	55272	A	25042	42	963	VQEGCVRPFCCRSAGVCWRST PDSVCLGITSGGCRTAKTAACS FLWKLCPRGTPARCQVECSYTR CLS\SLLGGVSQAGGTRVRDPL EEEVCP LAELERCAGRSVAVFR ASRQEHRLRLKLT SQPPLPPGA LSQGDGSFIYKPLTGVA AFLSD ALPKRRNLERQSGYSTFEELCF QKRTWGRDAVRISDLLLGDHS HFGKCPISRLERAENMPVVSEL SAAGCSTEVNHFVVGIIWQKGK CSKYTAPSKSSVPVSSTRGHVHI TVQNPTLVFPVVGKLNIDSPIGDR NIPVLTAGNCKTLGDLRSFPHN
24905	55273	A	25043	98	352	
24906	55274	A	25044	3	414	PEEALCALAELERCAGRAAALF RAERQKRLRLKLHPQPPLPPG ALSQRDGS\LSISP*LGLRLSFR DALPREQFYRLFTDRSDRVPEN SVTDVCHIESKMEPLRLGP/SNV SIMRPSLVCSFTTLVFISSNAQSS LVA
24907	55275	A	25045	2	1544	STTRGSPPQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRL PVFMLPPTPRKTSWIVAPVLEV LARAIRHETEIQGIHTGTEDVPV SLFADDMIIYLDNLKDSSRKL EVIRDFSKVSGYKINVHESVAL LYTNNDYAENHIKNSTPFTIGY VLAFFVMVIAVSCVRLLYAHN CTQHTSLKHKCQAWVVTVD AAFMTQATREERRIAYSAPGGY FFHILEVLARTIRQEKEIQGIQTG KEEVKVS LFADDMIIYLENLKD SSRKLLEVIKEFSKVSGYKINVD SRGSPTDLVIYKEEIVFLIVPKA KSKIKVLASDPLCYAATTWR MTIIAGLPVEYNDRFIRGIAVFA PWRKTPGIYHQSHDPLCYAATT WRMTIIAGLPVEYNDRFIRGIA VFAPWRKTPGIYHQSHGACLG RRSRTITVVDAQPQVMDMDPT CSLFTTGQCLGEPDLLASARRL QFFSHQYSIAVLMANARGNSA\ LW\DNYGGLIVRADRGSLLLVG

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24908	55276	A	25046	1	1228	MLQSNRTAASHSPSIQPAIQPAI QPASQLSIHNLWTQFRHSTKIPV EWWNGEVLNGRMPEDHHEWQ CNYQNVQQFIDEGNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGHIENNDYTLKKVM KPLITSNTRETVDNFKHIVR GAKLLFPAIQPPYPLYFGGSSD VAQELAAEQVDLYLTWGEPPE LVKDFIEQVRAKAAAHGRKIRF GIRLHVIVRETNDQWQAERL ISHLDDETIAKAQAFAFRTDSV GQQRMAALHNGKRDNLEISPN LWAGVGLVRGGAGTALVGDG PTVAARINEYAALGIDSFVLSG YPHLEEAYRVGELLVPLLDVAI PEIPQPQPLNPQGEALRKK
24909	55277	A	25047	1	1075	MTIKGEQAKKQLIAAALAQFGE YGMNATTREIAAQAGQNIAAIT YYFGSKEDLYLACAQWIADFIG EQFRPHAEAAERLFAQPQPDRA AIRELILRACRNMIKLLTQDDT VNLSKFISREQLSPTAAYHLVH EQEAEHRFAMGELPDEVLEICQ RLAKLTEMLRGLAELFLNDLSE KTGSHDIVRLHRLILQMNRLG MFEAQSKLWRLASLAQSSGAP VTKWATREEREGQLHLWFHCV GIRVSDQLERLLWRSIPHIIVTS ATLRLNSFSRLQEMSGLKEKA GDRFVA/SGFP/HLTTANRAKLL FPGCALSLPSTTKSSILPKWRPF SVSRWRANKNISVCWYCLPADG RCSAFSTM
24910	55278	A	25048	530	642	LKTLW/PAVQEPVPHRYHGATV FRIMQTIFIKICRLLL*GTAGHF VCGITACHAAEAHRLTVQPVP RILDQRRPAQLHSRQVTAAIRQ PLHRRQAVRRDAVCQPLLVC VFRLMLPQQFPRLRVLHRLAFA GQAAFIVIAIVDGNTVAFQAQVA DVCQPAVAIILPLLCEFSQVI MITLRPPVKAALLYQPVRIVT EDAVAAVQEPVPHRYHGATVF RIMQTIFIKICRLLL
24911	55279	A	25049	1075	1479	

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24912	55280	A	25050	2	588	RWSSLTSSRYGFCRCPEADKE CLHVKSAAGKKATNVGHYAG WLRTYSPHLAAHRVNFFFGINA HMDQRGPGRLMISCNEACGSA CYSNHSYMRNDKHAVRRADSG RAEGGGPRVKSVIKAPVITPKK KPVVSTLKHVWLMLAWVTCSP LTVLSPDGEMFDVMEKYAFSA WKWKRLRLAISQATFHALLPE KIG
24913	55281	A	25051	912	1169	
24914	55282	B	25052	1	1665	
24915	55283	A	25053	43	302	
24916	55284	B	25054	116	1534	
24917	55285	A	25055	1	1017	NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSAKKRDAELANG ALGIELNNDYTLKKVMKPLITS NTRETVDENGKHIHVRGAKLLF PAIQQPYPPLYFGGSSDVAQEL AAEQVDLYLTWGD PADL\VNEI VEQVRAKAAAHGRKIRFGIRLH VIVRETND EAWQAAERLISHLD DETIKAQA AFARTDSVGQQR MAALHNGKRDNLEISPNLWAG VGLVRGGAGTALVGDGPTVAA RINEYAALGIDSFVLSGYPHLEE AYRVGELLVPLLDVAIPÆIIPQP QPLNPQGEALRKK

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24918	55286	A	25056	1	2677	MVLNRLLTGLFFGSTPPRCHYD LIGADPDRTIRSVRLYWRHSLN ELISMLPKFNKELTRKLFKLQE MLPFLNLHMSPERMLQRMDS KVVTFTTALMTGLSGAMASVL LLVMTVVFMFEVRHVPYKMR FALNNPQIHIAGLHRALKGVSH YLALKTLLSLWTGVIVWLGLEL MGVQFALMWAVLAFLLNYVP NIGAVISAVPPMIQVLLFNGVY ECILVGALFLVHVMVIGNILEPR MMGHRLLGMSTMVDGVRVLKD GTDLNQTGSFYLAARPYAEKN GAFIQGVLATFSEADALTRSQR EQSIALLAKTMGLPAPVIASLLE ISQPVSNHPIRTRLTAEVAALQQ QTADLFYENRLVPKKVDIRQRI WQPTRLEGKQFMSLNMFWFLP THGDGHYLGTEEGSRPVDHGY LQQIAQAADRLGYTGVLPTGR SCEDAWLVAASMIPVTQR/LKF LVALRPSVTSPVAARQAATLD RLSNGRALFNLVTGSDPQELAG DGVFLDHSEYEASAEFTQVW RRLQRETVDNFNGKHIHVRGA KLLFPAIQQPYPALYFGGSSDV AQELAAEQVDLYLTWGEPPPEL VKEKIEQVRAKAAHGRKIRFG IRLHVIVRETND EAWQAERFV LSGYPHLEEA/YRVGELLFPLLD VAIPE/IPQPQPLNPQGEAVAND LSPRRTVAASGDQLLAGAVGFS
24919	55287	A	25057	114	372	
24920	55288	A	25058	2270	2760	TSPIPSQIRQYSIA/VGSTGNLGL SIGIMSARIGFKVTVHMSADAR AWKKAKLRSHGVTVVEYEQD YGVAVEEGRKAAQSDPNCFID DENSRTLFLGYSV/AGQRLKAQ FAQQGRIVDADNPLFVYLP CGV GGPGGVAFGLKLAFGDH VHC FFAEPHSPCMLL
24921	55289	B	25059	1	2460	
24922	55290	A	25060	1	993	

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24923	55291	A	25061	332	1349	ILYDSDIYRFSCRSGGHIPAVIY HLSAKRRTMENAKMNSLIAQY PLVKDLVALKETT/WGFIPATL HGVKGLPYVGLTEQDVQDAH ARLSRFAPYLAKAFPGKWLP TG GIIES\ELGAL/PAMQKRL/EKEY QQPISGQLLLKKDSHLPISGSIK ARGGIYEVLAAEKLALAEAGLL TLDDDYSKLLSPEFKQFFSQYSI AVGSTGNLGLSIGIMSARIGFKV TVHMSADARAWKKAKLRSHG VTVVEYEQDYGVAVEEGRKAA QSDPNCFFIDDENSRTLFLGYSV AGQRLK\AQFAQQGRIVDADNP LFVYLP CGVGGPGGVAFLK LAFGDRVHGLQA
24924	55292	A	25062	284	1494	RLSLPDMFPPVQQFPVSLHRAF YRYDKSAYYALRIAGIASRLNP RRFSPSILTPERRCVVTLRNDIR RDVLRHNQPRSTASTRQARRR MKSSCWHMPTTSKPQALSHTS NSPTTSISRPNWSYSNVCNRSRT MANLSGYNFAYLDEQTKRMIR RAILKAVAIPGYQVPFGGREMP MPYG\WGTGGIQLTAS\VIGESD VLKVIDQGADDTTNAVSI RNFF KRV TGVNTTERTDDATVIQTRH RIPETPLTEDQIIIFQVPIPEPLRFI EPRETETRTMHALEEYGV MQV KLYEDIARFGHIATTYAYPVKV NGRYVMDPSPIPKFDNPKMDM MPALQLFGAGREKRIYAVPPFT RVESLDFDDHPFTVQQWDEPC AICGSTHSYLDEVVLDDAGNR MFVCSDDTY
24925	55293	A	25063	1	333	

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24926	55294	A	25064	1368	2451	PAHAAPGGGC/VRSLACRFLWN MRVTGKSYSTLRRVLSAIWNW RMMRCALTRALVAFRVR/SSVP LA AVLAIYARENGAGTMFEPE AAYDEDTSIMNDEEASADNET VMSVIDGDKPDHDDDDTHPDDE PPQPPRGGRPGLRGLTLRWFSV AAQRSDILDVTL SLKVAALAT LIALVLGTLAAAALWRRDFFG KNAISLLLLLPALPGI VTGLALL TAFKTINLEPGFFTIVVGHATFC VVVVFN NVIARFRRTSWSLVEA SMDLGANGWQTFRYVVL PNLS SALLAGGMLAFALS FDEIIVTTF TAGHERTLPLWLLNQLGRPRD VPVTNVVALLVMLVTTLPILGA WWLTAKATYLEKLV
24927	55295	A	25065	1	2072	MSEQLTDQVLVERVQKGDQKA FNLLVVRYQHKVASLVSRYP SGDVPDVVQEAFIKAYRELTPR RPYLLRAFYEWLLDNQLTPHL VVDVTLPGVQVPM EYARDGQI VLNIAPRAVGNLELANDEVRFN ARFGGIPRQVS VPLAAVLAIYA RENGAGTMFEPEAAYDEDTSI MNDEEASADNETVMSVIDGDK PDHDDDDTHPDDEPPQPPRGGRP ALRVVNVIVAIHFTTKPTAMGIA VRFTTAKGETPAIPDVTTT TAVI GETARASV VAKCIGIITTA VPIV VKPFANISPATTSVPRFFGLPAS SSHTLIGAIIGIGLTNALLTGSSV MDALNLREVTKIFSSLI VSPIVG LVIAGGLIFLLRRYWSGTKKRD RIHRIPEDRKKKKGKRKPPFWT RIALIVSAAGVAFSHGANDGQK GIGLVMLVLVG IAPAGFVVNM NASGYEITRTRDAVTNFAARES EASVIRHSNRFIETINGGRRC SR GITLTLHKLRSAQPLLA VLNLR LEQKKPVGLRYDPQAQSLVCLP TQTRTGWNLNGFEVGF RPCVR LMIYGRSLEAQATASLAAATG YDSHIFDLFPASASAQIDTDTAV ILLCHDLNREL PVLQAAREAKP FYL GALGSYRTHTLRLQKLHEL GWSRQETTQIRAPVGIFPKARD AHTLALS VLAEVASVRLHQEE

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24928	55296	A	25066	2	332	AGYSTRTALAIVNKPSSAIPPT SGLASRKRNPA S NDFNGCSRGC GGGGNAGRLNNGSKRSASTPP TIRPTNIAPP\AASPKAPPARWN VSSSGSAPAPRRRRANPETQLR
24929	55297	A	25067	1	3192	MNKKFKYKKSLLAAILSATLLA GCDGGGSGSSSDTPPVDSGTGS LPEVKPDPTPNPEPTPEPTPDPE PTPEPIPDPEP/TPE/PEPTPEPTD PEPTPEPIPDPEPNQNGAELSYN TEKTLTIRDSVFTYTENADGTIS LQDSNGRKATINLWQIDEANNT VALEGVSADGATKWQYNHNG ELVITGDNATVNNNGKTTVDG KDSTGTEINGNNGKVIQDGDLD VSGGGHGDITGDSATVDNKG MTVTDPEM
24930	55298	A	25068	1078	1317	
24931	55299	A	25069	135	361	SCSMLAGLCG*GSSSSVSITTCF ALSASTIA*PREPQQALPV*PLA LPNSSQDGTMPKATSIFSSPLCT RCTRPP
24932	55300	A	25070	469	841	RWWKQYAAAGFQCMCATAVS NLTRPVAA*TAAIPESKSPVLPN SPASTVRRS*PVSTMPIRPGDG DHDPRFKAPSGTPHQPPRAGHS LARRHG*TENCTAA*GQLRTPG DNGTVMSADTITFP
24933	55301	B	25071	1	2922	
24934	55302	A	25072	1	3849	
24935	55303	A	25073	1	2280	
24936	55304	A	25074	672	1045	GAVLSINCRTLSPAAASGENVA TPP/VTSNNNTPIINKPKPLALAE ATGVIIAPKPPSSAAPMASPVTF CAVHKPLIRPNIASGVVCVSIVY CSNELTALNQPN SARQTTPKIH GIRPNRPMARN
24937	55305	A	25075	650	1465	RKPICAADICQLSASAGYSTRT ALAIVSGLASRKRNPA S NDFNG CSRGC GGGGNAGRLNNGSKVI NVPAASP*FQATPPVASNKPPI MGEITDPRRTVNMVIAPACIKF SRPTSAGVAANS AVTPSDAKKP SHKPSK*IASNDGSGSSALRHSP MKPMPQVPRASKITFLRS*RSA STPPTIRPTNIAPPVSVTESPTCQ VECVIIWICTGTATPSKPRDTIE MKRARNTARNAGCVSAGSSGS SAEVGSSNSKTS GSIASARAIET RCC

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24938	55306	A	25076	156	3092	LNRRWIANIAKLEAEQARKLK KTEKDSLKDEVLSLLPRAFSR FSQTMWIDTVNGLIMVDCAS AKKAEDTLAVLRKSLGSLPVVP LSMENPIELTLTEWVRSGSAAQ GFQLLDEAELKSLLLEDGGVIRA KKQDLTSEEITNHIEAGKVVTK LALDWQQRIQFVMCDDGSLKR LKFCDEL RDQ NEDIDREDFAQR FDADFILMTGELAALIQNIEGL GGEAQHSGTGSLPEVKPDPTPN PEPTPEPTPDPEPTP
24939	55307	B	25077	61	2118	
24940	55308	A	25078	132	280	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVS RVD AQWKSSV
24941	55309	A	25079	1	1449	
24942	55310	B	25080	110	550	
24943	55311	A	25081	657	805	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVS RVD AQWKSSV
24944	55312	A	25082	756	938	
24945	55313	A	25083	781	1257	
24946	55314	B	25084	1	2727	
24947	55315	A	25085	1	2286	
24948	55316	A	25086	1161	2024	VRSAVWPCLQRDPDCHHNRCG TGGTSRPGPARNPRIEPTCVG\ RIRNLGVLLYDADAMERAAST ENEKDL YQRQLDVFLDPNDPK VIEQA IKDGIPLSVIEAAQQSPV YKMAMEWKLALPLHPEYRTL P MVWYVPPLSPIQSAADAGELGS NGILPDVESLRIPVQYLANLLTA GDTKPVL RALKRMLAMRHYK RAETVDGKVDTRALEEVGLTE AQAQEMYRYLA IANYEDRFVV PSSHRELAREAFPEKNGCGLPF GDGCHGSDTKFNL FNSRRIDA I D\KTEPHP
24949	55317	A	25087	664	1065	VAPEPHHGRKQLCREGLGVFH PTHHITHHLGVSLSLITIFDAQS VHGPDDGCQGLDSVAVDNRLV LFHVFSGEAIFMDDLHLLHNGA FS*FSSPEQE*F/PRLWRR*CHPL *GFSQSPCSARGRLSPLRSEYIP



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24950	55318	A	25088	434	1663	PAGAFPDIANDFGEKSLLMPGG AVINGDFNNVLPVDLVDPPQV QEFVDHAWYRYPNDQVGRHPF DGITDPWYNPGDVKGSDTNIQ QLNEQERYSWIKAPRWGRNAM EVGPLARTLIAYHKGDAATVES VDRMMSALNPLSGIQSTLGRI LCRAHEAQWAADAIENNYSRN PSQGYSTVPRSPHPKVDPILTKP SGPAGPEMTRKQTQREDRPRSR PSMTTSPTS NLKPSVPAFKGVG YLDSDRIGAADYQPT EQDILR TRVKT TGIVETHFTFKNLHFRT EQASVHACYCRLFDVEGQRSE RKKWIHCFEDVTAIIFCVALSG YDQVLHEDETTVLSTRIVDGH YSDHSTIACPAFGTYTLLELKE ALSCSTLLHIPHQ RSPAGSFLAD NLNCTQAAVIPEFGGF
24951	55319	A	25089	1	1247	MTFGGDQIFESLVYRS AFRH VY SRGSPWYLHTNSDL SFV ESKKE LIAEHILETFPWN LKGLTEIPWG DASGESGAV GLGVLA AVHYHP QRQSL MEKLALNKDAVVLVIS TEGDTDQVIERLESDAV LRYGI EDVVTNLDVLER MQPSESLLRA VLHTKHL MNPEVLAAARRIVC QVVEEIMARLAKEVRQAF SGV RDRRRRSFIPLARN FDFKSTLRA NLQHWHPQ HGKLYIESPRFN SR IKRQSEQWQLVLLVDQSG SMV DSVIHS AVMAACL WQLPGIRT HLVAFDTSV VDLTADVADPVE LLMKV QLGGGTNIASAGEYGR QLIEQPAKSVIILVSDFY EGGSSS LLTHQVKKCVQ SGIKVLGLGA LDSTATP CYDRDTA QALGNVG AQIAALMPGELGSLAWEN LLA

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24952	55320	A	25090	1	1691	MGAYLIRRLLLVIPTLWAIITINF FIVQIAPGGPVDQAIAAIEFGNA GVLPGAGGEGVRASHAQTGVG NISDSNYRGGRGLDPEVIAEITH RYGFDKPIHERYFKMLWDYIRF DFGDSLFRSASVLTLIKDSL PVS ITLGLCWYFVCRACVVTHALSL WQSASIEVPRTSATAKARKTEP GRQTKRKVRSSQTVAARQRIAT LPHSMTVCNPGLFHSQMADAL AHRYYGFNIAEPWDNGSEAML QRDIGLKSESRLMAGKRCSC KGECGWSLDMQARVSTCFYVR LLCGTELEDHRICIIDTCDNKCG PQRRYVIKFRELCLVNSTVTLV DQEYELTVTDPELYDGSSQALA GISDLSSYATCDPGYSCTDRVT LVDVRKRQSKTGPYKEIGRYGI DRNRSPLNPGFRGKPDLMPSQC IACGACACACAPANALTIQTDDQ QNSRTWQLYMGRCIY/CDGRCE EVCPTRAIQLTNNFVLTVTNKA DLYTRATFHLQRCSRCERPFAP QKTIALAAELLAQQQNAPQNR EMLWAQASVCPECKQRATLIN DDTDVLLVAKEQL
24953	55321	A	25091	1	866	

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24954	55322	A	25092	338	2388	CVQEPLITVSWRLFAIPAGMKF SLFLRCLFCFHLAARYLVLLCQ LH/SQGIKVLDFGTGVQSGPSCTQ MLAWFGADVIKIERPGVGDVT RHQLRDIPDIDALYFTMLNSNK RSIELNTKTAEGKEVMEKLIRE ADILVENFHFGAIDHMGFTWEH IQEINPRLIFGSIKGFDECSPIYV VKAYENVAQAAGGAASTTGF WDGPPLVSAAALGDSNTGMHL LIGLLAALLHRELNMVVAEIVE REEWAGFRARETAALAEAVTAP STVIATGGGIILTEFNRFHMQNN GIVVYLCAPVSVLEDFRQRTME VLRLAFLSSGILEFFTSLSIALVA VYFGFSYLGELDFGHYDTGVTL AAGFLALILAPEFFQPLRDLGTF YHAKAQAVGAADSLKTFMETP LAHPQRGEAELASTDPVTIEAE ELFITSPEGKTLAGPLNFTLPAG QRAVLVGRSGSGSRYPYINHR NVRLGPIVTDVPWENSGDKSLP EATAQVISSGSGATKVEDGLGD LNKPVSNNQNLVTGIDTPVYNAP SAGSAPFGVLADNMRYPIHLKL KDRLNQTYQIRIGDRLAYISA LDAQPDNGLSVLTYHHILRDEE NTRFRHTSTTTSVRAFNNQMA WLRDRGYATLSMVQLEGYVK NKINLPAVAVITFDDGLKSVS RYAYPVLKQYGMKATAFIVTT
24955	55323	A	25093	1810	2399	STFRNSDDEPYIVRPVAVAWRD YVPQPARNGLSNFTGNLEPAV MVNYFLQGDYQGMVHFTRFF HQHPSGLS*WVAGNIFQILCAN QPVRKRTRDNVQLLHSGRQRG VFRCSRRVLTGLVDRFGRTQTF HREAAGEFSGEITGVTDGAWR HFRLVLTQAQRAEEARQQAIS GGTEPSAFPDTLPVDTEYVMNF
24956	55324	A	25094	1	577	MPVSTAVATVIKTKQVEFQLQ VGVPLYFRLRANPIKTILDNQK RLDSKGNIKRCRVPLIKEAEQIA WLQRKLGNAARVEDVHPISER PQYFSGDGKSGKIQTVCFEVIG CREEPDAEECHGDREQRRVFIR EDGFFVTKDLYPNRRA/GIISTT AVISPSQPPIIAPRVAQSSEPRSA AHALARAIRQSTTV

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24957	55325	A	25095	51	407	TCPIRAQRVETLYDRAYREVFG WNPRGPTGRPNARHTG*SKEG GRTEADETDAADSGQRGMEQR SEMDRKPTGTTGQRSEKPRRTL ECLALHETRIFLPQRKETHSSDA HDMPGPPML
24958	55326	A	25096	3047	4131	AHSGQMYMPLSSCIRSCILGSV VMTCGFPQKSAGQKRQKTADC RKRPPQLYTKSLSL/AVKAILAK GYDPVKWRKKDKVLDAVLKE LESGKYSDGDKHAFDQMLHSI GKQGGDPYLVMAFAAYVEA QKQVDVLYRDQEAWTRAAILN TARCGSSMESKRLDNAALAAGI SPNYINAHGKPQSSAETKRRL DAMHQRATATKVAVTPVPMVM VYTSGKKMPMVVEGSGEYSW LLTTEGTQYKGHVTGGKAFN LPTKLPEGYHTLTLTQDDQRAH CRVIVAPKRCYEPQALLNKPKL WGACVQLYTLRSEKNWGIGDF GDLKAMLVDVAKRGGFIGLN PIHALYPAIRRAPAHTARLLAV
24959	55327	A	25097	524	697	AANWWWKSRRNWR*KMTAM LDRIISHIIRTVRMSGSAVTRAI AVPGLLLLLLIATA
24960	55328	A	25098	1	1938	
24961	55329	A	25099	33	226	

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24962	55330	A	25100	1	2314	MDRAGDGPRLSGPTDVYGD VYLRDPGPNHGKTTNGPLRFV LLPFGQQVFPRVTPNFWNPVSS AALPARYMQTIENAAVWAQIG DKMVTVGNIAGQIIAVEPTAA SYAFNCGFGKAFIDKGHLEPV QGRQKVEDGLGDLYKPLSNQN LVTWKDTPVYNAPSAGSAPFG VLADNLRYPIHLKLDRLNQT WYQIRIGDRLAYISALDAQPDN GLSVLTYHHILRDEENTFRHT STTTSVRAFNNQMAWARVDRG YATLSMVQLEGYVKNKINNRA TEREELRVSKITVLILGVIAILG VLFENQNIAMVGLAFAIAASC NFPILLSMYWSKLTTRGAMMG GWLGLITAVVLMILGPTIWVQI LGHEKAIFPYEYPALFSITVAF GIWFFSATDNSAEGAHLRPIRR KKVYRFNYLRSDGPYQGWVSE RLILRAISPGCSKLVHFPTLFDS LYRTLKAGEKSGLLAPVLEKL ADYNENRQKIRSKLIQSLIYPC MLTTVAIGVVIILLTAVVPKITE QFVHMKQQLPLSTRILLGLSDT LQRTGPTLLATVFIVAVGFWL WLKRGNNRHRFHAMLLRVALI GPLICAINSARYLRTLSILQSSG VPLLDGMNLSTESLNNLEIRQR LANAAENVRQGNSIHLSE/QT/ AIFPPMMLYMVASGEKSGQLG TLMGAQSHWECATVNAASRIR
24963	55331	A	25101	20	825	GFPRSRSCYASCTACRHTYSA EK/QLTRALAKLARATSNEKLS QAFHAHLEETHGQIERIDQVVE SESNLKIKRMKCVAMEGLIEEA NEVIESTEKNVRDAALIAAAQ KVEHYEIASYGTALTLAEQLGY RKAALLKETLEEEKATDIKLT DLAINNSFYKEDIFMNRIEHYH DWLRDAHAMEKQAESMLESM ASRIDNYPELRARIEQHLSETKN QIVQLETILDRNDISRSVIKDSM SKMAALGQSTADTTKNSTHRQ SNTRQGN
24964	55332	A	25102	2	269	GIIGLHLQQQEAVAVAIVRGAT RMLFATLVAVAAGERHYQRW ADC*CAAAG*NVVTVESRTAA ASSHYVGVSRSQSHITAVISAPV DVPW

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24965	55333	A	25103	607	727	RQAVYRG**TAGQRANLLLLR RHSACALAAAGESQSSCPAG
24966	55334	A	25104	465	574	
24967	55335	A	25105	3	636	AHTSGFGDKSEKVSQRKLHA MSRTFFWENLRCHGNLGSPTY AFQISAI DRVNFALVVGHLRH DYRNEKLGRSGRHYQAPVGNR SSADGMHRDPCSQLDICCILLG AGSIYGLYRYIEQLPDVATLK DVRLQIPMQIYSADGELIAQYG EKRRJPVTDGPVMWFPFMIITC VKGNFALNNQFREDMLNYNTE GIYGKNNVFENNKQT
24968	55336	A	25106	434	1205	
24969	55337	A	25107	368	532	
24970	55338	A	25108	722	934	
24971	55339	A	25109	82	420	ARADPHRAHTAGVNGVNARLR IFNADTCLRRHAQPCTGGEKDF RVRFRVFKLGSIRAEGEKLAQL QRR*NRRRIQGDRSQPNRD/RA VPEDLPSKERMPGRTALT VNSR SEWT
24972	55340	A	25110	618	788	WYPCCRNWRYLAGGDSGFCR GERA*R*IASQSGVT*AVATVV FPSVLGLRITGHS
24973	55341	A	25111	186	1198	QKTAVSTSITALTRWGS/SRA/G KRGAVLRSRVTRGKYHYPSSW RETSSSVQNAPLMRQIKEVFLAI RIEQLLTKDEILELYLNKIYLG RAYGVGAAAQVYFGKTV DQL TLNEMAVIAGLPKAPSTFNPLY SMDRAVARRNVVLSRMLDEG YITQQQFDQTRTEAINANYHAP EIAFSAPYLSEMVRQEMYNRY GESAYEDGYRIYTTITRKVQQA AQQAVRNNVLDYDMRHAI AA RHVVLWKPTANIRARYKAQGI ELPAVVPAGPDNPMGHHAIRL AAYGGVYLLHGTNADFGIGMR VSSGCIRLRDDDIKTLFSQVTPG TKVNIINTPIKVSAEPN

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24974	55342	A	25112	1087	3289	RLRSCGAQKNTFCNAAAGCRW RTTLSKMGGLLIAADLQDPVQ DMEMWQFHPTGIAC/AGVLVT E/GCRGEGGYLLNKHGERFMER YAPNAKDLAGR DVVARSIMIEI REGRGCDGPWGP HAKLKL DHL GKEVLESRLPGILELSRTFAHVD PVKEPIPIPTCHYMMGGIPTKV TGQALTVNEKGEDVVVPGLFA VGEIACVSVHGANRLGGSLL DLVVFGSARQVLHLQESIAEQG ALRDASESDVEASLDRLNRWN NNRNGEDPVAIRKALQECMQH NFSVFREGDAMAKGLEQLKVI RERLKNARLDATSSEFNTQRVE CLELHNL METAYATAVYATFR TERRGAHSR\FDFPDRDDENWL CHSLYLPESMTRRS DYTLEA DEGRDMMLLDAL IQLKEKDPS LSFRRSCREGVCGSDGLNMNG KNGLACITPISALNQPGKKIVIR PLPGLPVIRDLVVDMGQFYAQ YEKIKPYLLNNGQNPPAREHLQ MPEQREKLDGLYECILCAC CST SCPSFWWNPDKFIGPGSLLAGY RSGLIAGIPKCSARYLSGEKRSV AWQQIAAEIGISIDAQFNESLKG ISRDESLRRILQHGGKEGDFNSQ ERAQLAYRKNLLYVHSLRELT VNAVLPGIRSL LADLRAQQISV GLASVSLNAPTILAALELREFFT FCADASQLKNSKPGPGIFLAGC
24975	55343	A	25113	47	630	VGWETSFAQIRSRFLRIRFCRAY SSTLFVSAANPTT*G/QMVF*CG NGAQHKNILLLYRSIHGGFHFQ RGHHINTFNKRWRR**NRT*YQ RDVRATTGSGGGDRKTHLAGA VIRDITHRIERFTRRAGGNHNV QMFQVVDGRKCATAISTVLDM FGDHFGRQKIASCQRWLAKTIR TVQQPICKNIVRKPGCHSLA
24976	55344	A	25114	731	829	

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24977	55345	A	25115	2	3744	RLPFKYPVKVKPLPAPFSKILLN SPAIPQLPITMNGSDFSLPEGPM NRWENIQLTPETRLAPRAYFFS YDSVAQARTFARETSSLFLPLS GQWNFHFFDHPLQVPEAFTSE LMADWGHITVPAMWQMEGHG KLQYTDEGFPPIDVPFVPSDNP TGAYQRIFTLSDGWQKGKQTLIK FDGVETTYFEVYVNGQYVGFSG GSRLTAEFDISAMVKTGDNLLC VRVMQWADSTYEKQDQDMWW SAGIFRDVYLVGKHLT
24978	55346	A	25116	1	2643	
24979	55347	A	25117	2499	2935	RSGGVACNCAVSASCMLVTVL PWL.SLPV/SVFGLWDGFFASLG VTALLAATPA\W*GVKT*CRPG RSP/SLTVRLGSVISPMIGLLLA TGGVALLPLLSPALPPPQPRE HPLKSLLAGFRLLASPLVGGIA LLGGLLTMASAVRV
24980	55348	A	25118	676	1035	
24981	55349	A	25119	1	1842	
24982	55350	A	25120	1	1341	
24983	55351	A	25121	563	1360	PSVLRCRNWVI*SPYCISLPSRV SSLPFLVWIPVAR/CTAIGASRE AMLGVLVEPMLLLGLWVAAQ VAGSTNISNITDTVYHWPLSQSI PLVLALCACAFATFIEMGKLFP DLAEAEQELQEGPLSEYSGSGF GVMKWGISLKQLVVLQMFVG VFIPWQOMETFTAGLLALVI AIVKL VVGVLVIALFENSMARL RLDITPRDMIRIELDSWEQNGE AIKRTGQPLLLSLLVRNLLDNA VRYSPQGSVVDVTLNADNFIVR
24984	55352	A	25122	382	1424	VLENLSEPPNQHDHIEILTVQR KEEETALSCRLVLRKLTETEPVI IFEGIEAPATLPADVPVKGKDN DNVEVSRWGTPREFDFEVRDH VTLGEMHSGLDFAAAVKLTGS RFVVMKGQIARMHRALSQFML DLHTEQHGYSENYVPYLVNQD TLYGTGQLPKFAGDLFHTPRRH ECFRHIGSLGLATPLVTECMQW LFGIPHTLQLDAIITCWIILNAIC VACGLQKGVRIASDVRSYLSFL MLGWVFIVSGASFIMNYFTDS VGMLLMYLPRMLFYTDPIAKG GFPQGWTVFYWAWWVIYAIQ MSIFLARISRGRTVRELCFGMV QEFGCKSSTKIDNADFNQA



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24985	55353	A	25123	416	610	
24986	55354	A	25124	662	811	AQQLPGMSDWQNSQEQHQMK N*VRLFMRTSRKLM DRLNVLIK LWSPNRT
24987	55355	B	25125	1	3264	
24988	55356	A	25126	489	3256	PRVFSSATRS LVAMRRVWYRV RRIQYRRTTQTAVFHSTHGNYR EGQPVGTLIDDRYKANENVEL VHYAQPLLNEADSLAKVMPSDI PLKQRRWGLQMLEGDIYSRA YAGEASQHLDAAALARLRNEMD DPALHIADARYQCIAAICDVVS NTLTAEPSRFTTAVDKIVLNRFL GLPIFLFVMYLMFLLAINIGGAL QPLFDVGSVALFVHGIQWIGYT LHFPDWLTIFLAQGLGGGINTV LPLVPQIGMMYLF LF
24989	55357	A	25127	779	910	
24990	55358	A	25128	2203	2665	ACWARISAAVIQRSGMPGVRV CGRIKSCSKAVRCQRHVFATCV WNGRQVTSGAGTWTIAWYSG VMSSAISSWSRPAIPFSAEA*TIG KSSC/YVGRVEVNEQIEYLIHNP IRTRARAVNFVDNNRLQAVS KRFFGYEARLRHRAVKCVNHQ QH
24991	55359	A	25129	241	918	
24992	55360	A	25130	2142	2646	KGVCGTTNPAKIQAILQAFHEI FGECSCHIASVAVESGVPEQPF GSEETRAGARNRVANARRLLP EADFWVAIEAGIDGDSTFSWVV IENASQRGEARSATLPLPAVILE KVREGEALGPVMSRYTGIDEIG RKEGAIGVFTAGKLTRASVYH QAVILALSPFHNAVY

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24993	55361	A	25131	473	1765	KAWLMTGIVRHWKGRAVPPA EQLEHLGNGKSFDSVAQAWD AAMADAKAEDTVLWGVEAFRI NAAVAKDDTQIHTHMCYCEFT DIMDSIAALDADVITIETSRSDM ELLESFEEFDYPNEIGPGVYDIH SPNVPSVEWIEALLKKAARIP AERLWVNPDCGLKTRGWPETR AALANMVQAAQNLRRGARAG CAADFAASARLAVGEALTNIA ATQIGDIKRIKLSANWMAAAG HPGEDAGLYEAVKAVGEELCP ALGLTIPVGKDSMSMKTRWQE GNEEREMTSPLSLVISAFARVE DVRHTITPQLSTEDNALLIDL KGNNALGATALAQVYRQLGD KPADVRDVAQLKGFYDAIQAL VAQRKLLAYHDRSDGGLLVTL AEMAVLSSLGQGGYFGHMII/D SGQYPGKSKTGQSTPDVAAQA RQSWIP
24994	55362	A	25132	602	2563	VVTTTLTLVLTAVGSVLLLLFLV MKARMHAFLALMVVSMGAGL FSGMPLDKIAATMEKGMGGTL GFLAVVVALGAMFGEILHETG AVDQIAVKMLKSFGHSRAHYA IGLAGLVCALPLFFEVAIVLLIS VAFSMARHTGTNLVKLVIPLFA GVAAAAAFLVPGPAPMLLASQ MNADFGWMILIGLCAAIPGMII AGPLWGNFISRYVELHIPDDISE PHLGEKMPSPFGFSLILLPLV LVGLKTIAARFVPEGSTAYEWF EFIGHPFTAILVACLVAIYGLAM RQGMPPKDKVMEICGHALQPA GIILLVIGAGGVFKQVLVDSGV GPALGEALTGMGLPIAITCFVL AAAVRIIQQSATVACLTAAGLV MPVIEQLNYSKRRGFTGRVEEN FGVCKGPSKYHSQHDAINRQG READAHGTLENLPLPLVPQPN AATALAALRASGLEVSENAIRD GASAILPGRFQIVSESPRVIFDV AHNPHAAEYLTGRMKALPKNG RVLA VIGMLHDKDIAGTLAWL KSVVDDWYCAPLEGPRGATAE QLEHLGNGKSFDSVAQAWDA AMADAKAEDTVLVCGSFHTVA HVMEVIDARRSGGKLCQMHN VQDKIDEEINQVHICLCLVLVIV SGCKYVGYSKCSHYSLVR

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24995	55363	A	25133	518	1079	TQKETNKRCSP LVGWYPAFRM AHFLASERSCYQKLSN\RKSH\ P AVAGMVSGMTVANLL/EHSAG NVFKSGI*LALHLFIDRCF*YCG DGIGLFLGARYSRRGERKSART ISLFAQPGPVVNFRRHDVWQRR CVCLVQLRKAIHDVYFRFFGNG DDLYYDVSWARDGAGKYAKW QDFRTLFTTAHCSSD
24996	55364	A	25134	322	798	AQRAHVVGTVGKFDEDDADIL HHRHNHLAKVFGLRLFLIAELE FIKFRHPLYQLGDAFTKKLFHIL ILVVGGSIFNHVMQQRHRQRFI VEFHLGQNAGN\ATGCVI*GSPL ERVCPs*ASRATRYACRRRLIW SIARPAAKVSACCSAIATSK*RS KGQRVLLGNCHVEVAIREFT
24997	55365	A	25135	440	906	CGFSSLSRLPHSSYSAHHA VAPS VLMSASGRPRWSQWYRWIFRA GVYTGSIWFFICSTVRPHDASQ RRLSSLT/QVSQDFTFQPVNHQL WAGGKPTAGITVGKQ*W*PFIK FTVPGDDSGDGRGQGFLQIAAG KCRAQTFFSFCRAGKHDP CRRT VS
24998	55366	A	25136	1059	1541	TAPLLRPGCRLS*SAAHPAAPA QSTNQCPGDRYAATLPAHHRH TNHG*IADVHQHISATPASAAS YAPGFLKDGAPASERHRETGC GRDRPH*PSLYKLSGILRPYQPA SFPG*QQRAVLSAR*LLPVQCSL HSQRCRRRPHRLHRSAPAPGIR ERRSRR

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24999	55367	A	25137	236	2211	QGALMSEDIFDAIIVGAGLAGS VAALVLAREGAQVLVIERGNS AGAKNVTGGRLYAHSLEHIIPG FADSAPVERLITHEKLAFMTEK SAMTMDYCNGDETSPSQRSYS VLRSKFDAWLMEQAEEGAQL ITGIRVDNLVQRDGKVVGV DGDVIEAKTVILADGVNSILAE KLGMAKRVKPTDVAVGKELI ELPKSVIEDRFQLQGNQGAACL FAGSPTDGLMGGGFLYTNT LSLGLVCGLHHLHDAKKSVPQ MLEDKFQHPAVAPLIAGGKLV EYSAHVVP EAGINMLPELVGDL HERSLIFVASGPAGNSKETASD KLEEALPTKNWEVPGANWNT GNGIPSVPEKLKGMLSAPNYRR MVLPAPLQILLQNAKGGELLG AAGGQIAFNLGSAVGAYCGGM MLTLGLAYNYVALPAALLSFA AMSSLLLYGRYKRQQAADTPV LAKPLGQLDNAPFRCEVNLIR EEIGFNALDKFKRTTGALLQLQ QALHPALGADLCGSTGFAVLFI SPVRGNTHLRHLVHIFGTDLDL NRHSVRADHRGVQRLIAVRFW NGDIVFHAARTRLVQAVHLAQ HAITGVRIIDDHAESVDVHDRV KTLLFEHHFAVNRIKMLLPTTD AARYSRFLQTPDFRKNLLDHL
25000	55368	A	25138	1	1932	

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25001	55369	A	25139	1	1200	MAIPAFGLGTFRLKDDVVISSVI TALELG YRAIDTAQIYDNEAAV GQAIAESGVPRHELYITTKIWIE NLSKDKLIPSLKESLQKLRTDY VDLTLIHWSPNPDEVSVVEEFMQ ALLEAKKQGLTREIGISNFTIPL MEKAIAAVGAENIATNQIELSP YLQNRKVVAWAKQHGIHITSY MTLAYGKALKDEGIARIAAKH NATPAQVILAWAMGGGPVE\W RR*QIWRGFSSAS*RHELYITTK IWENLSKDKLIPSLKESLQKLRTDY VDLTLIHWSPNPDEVSVVEEFMQ ALLEAKKQGLTREIGISNFTIPL MEKAIAAVGAENIATNQIELSP YLQNRKVVAWAKQHGIHITSY MTLAYGKALKDEGIARIAAKH KHNATPAQVILAWAMGGGPVE MAKVADMAGIFVSKLKTFFNAG VKGSTLGASGPQYVMVPKKHA DQLRESLASGEIAAVQSTLVAD NTPLNRSRVYTVRSGDTLSSIASR LGVSTKDLQQWNKLGRGSKLKP GQSLTIGAGSSAQLANNSDSIT YRVRKGDSLSSIAKRHG VNIKD VMRWNSDTANLQPGDKLTLFV KNNNMPDS
25002	55370	A	25140	2237	2404	
25003	55371	A	25141	307	642	
25004	55372	A	25142	1449	2084	NAPRCAYYVDVIAVTMPTTCC TLKISPLCRELITLANRTTQR AEPMTRRLIQVLFDELPPQPPQ QLHLPVSSHPIKRTMVEMMAK GPVEWGALGQWAGFFAMSER NLARLIVKETGLSFRQWRQQLQ LIMALQGLVKGDTVQKVAHTL GYDSTTA\FITMLRKPGKTAGTS LYHRRYGVSLSSAWGQVGPP RYCRQANSVLSDRFCVLI
25005	55373	A	25143	981	1103	
25006	55374	A	25144	222	379	
25007	55375	A	25145	1	1452	
25008	55376	A	25146	500	854	
25009	55377	A	25147	1	1374	
25010	55378	A	25148	2	167	
25011	55379	A	25149	781	1047	
25012	55380	A	25150	1	783	

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25013	55381	A	25151	442	857	LVKNPVKRMEIQKQNLTLFEYL DWWDVLFLLLESELLFANTWL AATSESVDDCSGVKPPSGKNGT *AMPSWAKASHIASSARCAMLY SFCTQTISAILRASATCVGVTL RPICFTRPCCCSASTVRLASIDP SAGP
25014	55382	A	25152	3	4105	
25015	55383	A	25153	2	269	YKNPYIAAKIQPKTHDTLTPINP GRIKLWMTKRPMWVVPERSN *IAARSLG*VGRM**P*QAGAE ATMYAGSTPIASATGTIAASAA A
25016	55384	A	25154	1	1370	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIILTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIILPTYPSTDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLRVIPSI MVGSVGGAVTAALVGAQCYA GWGGLIVLPVVEGKLGYYIAAV AVGAVVTAVCVNLKSLARKN GSSTDEKEDDLDFEIN
25017	55385	A	25155	1	789	MKIIAGITPADSGTLEIEGNNYV RLTPVHAHQGLIYLPQEPLLP SLSIKENILFGLAKKQLSMQKM KNLLAALGCQFDLHSLAGSLD VADRQMVEILRGLMRDSRILIL DEPTASLTPAETERLFSRLQELL ATGVGIVFISHKLPEIRQIADRIS VMRDGTIALSGKTSELSTDDIIQ AITPAVREKSLASQKLWLELP GNRPQHAAGTPVLTLENLTGE GFRNVSLTLNAGEILGLAG/TEL AETLYGLRTLRGGRIML
25018	55386	A	25156	1	1332	

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25019	55387	A	25157	1594	2220	MWVNPERGRAENTIIGGNATGI GTLNVQDQDSVITVRRLS*SAL KPGILVFKLTPAETERLFSRLQE LLATGVGIVFISHKLPEIRQIAD RISVMRDGTIAGTGFDDFGFT HPLRQQRLPQHLVSFMRAAVQ QIFTLEIQRGVRPGCNVLAFGQ RGWTPGIVFQQVVLSLKFRIFL RTDKSFFQLAQSRHQDLWHVH AAKLTIGVK
25020	55388	A	25158	14	237	KTTSFPAKLFNACRISLLASAE/ CQSEYFSIFSNDLADTVMFL* GAIRFSDLVNEIQHTFLIPGETI CRLSEVV
25021	55389	A	25159	1	1506	
25022	55390	A	25160	158	639	SGC*PGRPSLN/GRLDVLSAWS VSILRLGGMALEGSIAIYIVNFC DVKPQRFRLSVPAASITVVLIQ QFVLHRRELRRKLALPAHHLVT FTWGNVSAVDETRQWMVIKPS GVEYDVMTADD\RWWR*PAV RWWKAANKPLPIHQRIWRSTV AMPKLAVLC
25023	55391	A	25161	2	2886	SVPTIFFFFLPVLRFWRPQIQQA KKCHLFATGTQSRRTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRTARFRRT WRLGHCVSAAVTGVLPAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELP AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRTEDNG EVWQWVDDALTFELPEIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGF
25024	55392	A	25162	1	1659	
25025	55393	B	25163	200	646	
25026	55394	A	25164	1	3197	MPHRQHGPQMTPSHQRTTINR DQREQQPIGTAAPQTRPQSAPY CEPHTRRRTLQPHNRGFR TAKY TSTQARKYHMAPERSNDS DH PVHTRSRWNATQTERHTQH HV SPPSSLRLRTNCTSHAHRYH RHAQWHRVGLLDVKPTGVPSN TVFSPKNALWADRVDTSRGR TTVEQDNHPNGGNVVGTPSDN NFWLETTGGDPNKEYYHHHHY NEDYCRYYP LLIAEPLLP SLSI KENILFGLAKKQLSMQKMK
25027	55395	B	25165	1	2505	

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25028	55396	A	25166	159	1744	NSRISGLQQRylMHIMVTQGGL MSLSIVHTRAALGVNAPPITVE VHISKGLPGLTMVGLPETTVKE ARDRV/RSAINSGYEYPAKKITI NLAPADLPKEGGRYDLPIAIAL LAASEQLTANKLDEYELVGEL ALTGALRGVPGAISSEAEIAKSG RKIIIVAKDNEDEVGLINGEGLI ADHLQAVCAFLEGKHALERPK PTDAVSRLQHDLSDVIGQIEQ GKRVLEITAAAGHNLLIGPPG TGKTMLASRINGLLPDLSEEA LESAAILSLVNAESVQKLWRQR PFRSPHHSASLTAMVGGGAIPG PGEISLAHNGVLFDELPEFERR TLDALREPIESGQIHLSTRAKI TYPARFQLVAAMNPSPTGHIYQ GNHNRCTPEQTLRYLNRLSGPF LDRFDLSLEIPLPPGILSKTVVP GESSATVKQRVMAARERQFKR QNKLNAWLDSPEIRQFCKLESE DAMWLEGTLIHLGLSIRAWQR LLKVARTIADIDQSDIITPTCYG KADARNSGNVCPSSRALVQR
25029	55397	A	25167	127	503	NRCLLLTLLRCKGRNREEENDA EAESEKLKKNFNRPSGRLSYGD RMFDIGVNLTSQFAKTVMML *RARLGLR*TTGLELRELLPLIP AEKL*/YETDAPYLLPRDLAKP STSRYHCVIEARAWFK
25030	55398	A	25168	3	406	



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25031	55399	A	25169	1	1252	MFDIGVNLTSQFAKDRDDVV ACAFDAGVNGLLITGTNLRESQ QAQKLARQYSSCWSTAGVHSH DSSQWQAATEEAIIELAAQPEV VAIGECGLDFNRNFSTPEEQER AFVAQLRIGADLNMPVFMHCR DAHERFMTLLEPQMVENYETLI FEAHSTDYQTPQSLRQLVIDHF AILKVGPAITFALREALFSLAAI EEELVPAKACSGLRQVLEDVM LDRPEYWQSHYHGDGNARRLA RGYSYSRVRYYYWPDSQIDDA FAHLVRNLADSPIPLISQYLP LQYVKVRSGELQPTPRELIINHI QDILAHTTQPVKANKQNKKEH AMPNIVLSRIDERLIHGQVGVQ WVGAFAGANLVLVANDEVAED PVQQNLMEMVLAEGIAVRFWT LQKVIDNIHRAADRQKILLVCK T*WKWYWQKGSPPYVSGRCKK LSTTFIAPPIDRKSCWFVKHPPIS
25032	55400	A	25170	2	319	YSSVFSLSASAFSSSRFRPLPT* KREKKTPISNRQYIGIANSVCEK TSGGVSNIPTTNAPTSTYGRFLR KSSGEVPIQHSSTIATGTSKETP NAINSAITKLK
25033	55401	A	25171	1	1011	MIPHPKLEGDRSTQALPPTPVIR VTERRNLNWVGTITGFVHTGK PLSFVYDMADIIFDITVVPKAF EIARRNPGEPPDREVRACRDIFR SSKTLAKLIPLIEDVLAAGEIQPP APPEDAQPVAIPLPVSLGDAGH RRRRSGRVSEVSWRSGVMSFR RASGDKPQPKPKVMPEHAECPP AARRGQMMSICPCFALKIDIAD NKFFNGETSPLFSQSQAKLARQ FHQKIAGYRPTPLCALDDLNL FGVKKILVKDESKRFGNNAFK MLGAPEKCHRRKNDF*RRSDRI VLIRL*REFSSHQKGLRDRPAH KAVLGDNQLFSGGTGAPVWPG FAKRAVMF/TPLKNLLSAISIFN AKHGHILIIWPRLAAGGHSACS GITFGFGCGLSPLARRKLMTPE RQLTSDTRPDRLLRWPASPSET GSGMATGCASSGGAGGCISPA ASTSSISGINLANVLLLRKISLH AKRTSRSGSPGLRRAISKAFGTT VSNLMMSAIS
25034	55402	A	25172	1	510	
25035	55403	B	25173	1	1482	

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25036	55404	A	25174	704	1069	RLWQADCKENAGVDY YWTF PQPTFVSTQKYYCHVDNSCYM NFDFAPEYHAHWRYGLLMVG ESQHGLGANAIQASQCFAAN QPLGADATFLQQIKGEIICFGLFI TGVFSIDSAFCDIT
25037	55405	A	25175	1	639	MARVWLCDIFIPYGYLPTLNAM PESTRKQIMPWTRLSGSLHTWN RTPNRRIGRYPSGLPPDSANRPR REPDACRSLHSPAKYRGPNPRD RLDHQQNGLPARGKDTPRSNK PSISQWTNTKPQPRHQPRGKKG HKSPAPEMPKPPQATSSSTREQT KYGAAELWRSPWKTRYIELKA RGPMACVTISLNVCCAHLVRL VMVTLKQTDPIRNLGEMPSKSQ TKKAREVHLHSLHLQELAQQ EPPARKRKTQWAVSERK
25038	55406	A	25176	82	356	AQCEEYRVPQTLKRNPQCFDI SIRGGSQPCGIFSTPVRNTLQNM GQMGWL VAPG*WLWREIRKH NRWCACPRKPGRAGISMALRW GSGHA

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25039	55407	A	25177	1	2635	MNKS GKYL VWT VLSIMGAFAL GYIALNRGEQINALWIVVASVC IYLIAYRFYGLYIAKNVLA VDP TRMTPAVRHNDGLDYVPTDKK VLFGHHFAAIA GAGPLVGPVLA AQMGYLP GMIWLLAGVVLAG AVQDFMVL FVSTRDRGRSLGE LVKEEMGPTAGVIALVACFMI MVII LAVLAMIVVKAL THSPWG TYTVAF TIPLALFMGIYLR YLRP GRIGEVSVIGLVFLIFAIISGGWV AESPTWAPYFDF TGVQLTWML RLINRSIMMDFSLTEE QELLLAS IRELIT TNFP EEFRTCDQNGTY PREFMRALADNGISMLGVPEEF GGIPADYVTQMLALMEVSKCG APAFLITNGQCIHSMRRFGSAE QLRKTAESTLETGDPAYALALT EPGAGSDNNSATTTYTRKNGK VYINGQKTFITGAKEYPYMLVL ARDPQPKDPKKAFTLWWVDSS KPGIKINPLHKIGWHMLSTCEV YLDNV*TSVWRTCACPALRRA TQRYRRQSRAGNLRTSGEAI RR DMEWTS LRSE\ DWEKGD TIKQC ISAATSCVYGV TGEGILEGGDA QILREPLPGTKLGLLNWPV FDA LESRSTRERD GKPGGEICGETA NILIRGPENRPLRRDPPGKP

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25040	55408	A	25178	216	1829	TVCRCHFVTTKHIGRERNQRAR QCLVGKTTDTQQHNCDIRVGE QADHTRANHQHCTQRYDHLTG NDQVHTKPTLEQRRQVTTEDT TEVSKQHRHPGEHRDLFQRTLN ISADDQRRLLLELQNDNLNHNH IWLRLAAQPEDHIYGCGEQFSY FDLRGKPPPLWTSEQGVGRNK QTYVTWQADCKENAGGDYYW TFFPQPTFVSTQKYYCHVDNSC YMNFDFAPEYHEALWEDKA TLRFECADTYISLLEKLTALLGR QPELPDWIYDGVTLGIQGGTEV CQKKLDTMRNAGVKVNGIWA QDWSGIRMTSFGKRVMWNWK WSENYPQLDSRIKQWNQEGV QFLAYINPYVASDKDLCEEAAQ HGYLAKDASGGDYLVEFGEFY GGVVDLTNPEAYAWFKEVIKK NMIELGCGGWMADFGEYLPD TYLHNGVSAEIMHNAWPALW AKCNYEAEETGKLGEILFFMR AGST/GDIGGYTTLFEMKRSKE LVLRWCDFSAFTPMMRTHEGN RPGEHWAF/DGDAKHRHLAVY
25041	55409	A	25179	277	488	
25042	55410	B	25180	260	1500	
25043	55411	A	25181	1	764	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASE*TPGA YNRPSSKK*GFQLVLLPFSAN GKSPAY*RFSKSFAEDGEKDAG FPHYAEAGYDNGGRRSGAGT LLSR*I*TGAGRGAWRV*RLTG E*MAGKRT*VTASGYSQR*IMV FLWSLYRSYRL/GRVRQHNGPR YLPVLARNWKMSAWVAAAW QGLTDMKRKTMKIRSGS\IVILA SGYAATAA*PLSGDRIFLP*PGK TG*RHGGTPSCAGFTGDY
25044	55412	B	25182	1	3117	
25045	55413	B	25183	270	388	
25046	55414	A	25184	2154	2279	
25047	55415	A	25185	614	623	RPNSGAR*GRGDKRSTQSPET VRLFCAGTFDQQPGNARWDD QYRCIRSGIVGVRAVLLGGDIL DTQPLPVELAETLGKSAE

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25048	55416	A	25186	1208	2813	CYGVAVPFDPTLKFEFWRYFT HALMHFSLMHILFNLLWWY LGGAVEKRLGSGKLIVITLISAL LSGYVQKQKFGPWFGGLSGVV YALMGYVWLRGERDPQSGIYL RRGVIIFAPIWIVRRWFEMTPTQ WSNYFFENLFKYEWVQTRSPA GAIQFEAVDAPEIIPDPFDPSKK RKPTMLVTDLTFRDPEFEKISR RFLNDPQAFNEAFARAWFKLT HRDMGPKSRYIGPEVPKEDLIW QDPLPQPIYNPTEQDIINDLKFAI ADSGLSVSELVSVAWASASTFR GGDKRGGANGARLALMPQTR TGDVTRRQPIRALPVLE\KIQKE SGKASLADIIVLP\GLFVVEKSA SAAGLSIHVPFAPGRVDARQDQ VTAIGMFELLEPIADGFRNYRAR LDVSTTESLLIDKAQQLTLTAPE MTALVGGMRVLGANFDGSKN GVFTDRVGVLSNDDFFVNLLDM RYEWKATDESKELFEGRDRET GEVKFTASRADLVFGSNSVLRA VAEVYASSDAHEKFVKDFVAA WVKVMNLDREFDLL
25049	55417	A	25187	1520	1960	PVPLNFGWQRSTEVLIHVNSP STAAMTISPWRR**RRRTKQLS APLLLGVSAIGW/LTIILVAFMA WLLAKT/AFGRSFYATGDNLQG AR/QLGVRTEAIRIVAFSLNAER DFDDL RDSGPLIAMILFIMPTLS SISSRRLNPGVPSEI
25050	55418	A	25188	1155	1778	SASGGVMLKFIQNNREITALLA VVLLFVLPGLDRQYLSVQTLT MVYSSAQILILLAMGATLVMLT RNIDVSVGSITGMCAVLLGMLL NAGYSLPVACVATLLLGLLAGF FNGVLVAWLK/IPAIVATLGT YRGLMSLWTGGHWFEGYPRIE KPSPPVAGVHHWCVTQIGGLRP AVAKRVGPDLPDGNKGAKGVL NTLDNYGVDGKCV

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25051	55419	A	25189	1	2227	MVTIAGIILGGLALVGLITYFGK WTYLWKEWLTSVDHKRLGIM YIIVAIVMLLRGFADAIMMRSQ QALASAGEAGFLPPHHYDQIFT AHGVIMIFFVAMPFVIGLMNLV VPLQIGARDVAFPFNNLSFWF TVVGVILVNVSLGVGEFAQTG WLAYPPLSGIEYSPGVGVYWI WSLQLSGIAVAHIAAQNVAVLL ISSDLEEIELMADRYYVMHQGE ITHSALTERDINVETIMRVAFGD SQRGVMLKFIQNNREITALLAV VLLFVLPGLDRQYLSVQTLTM VYSSAQILILLAMGATLVMLTR NIDVSVGSITGMCVLLGMLLN AGYSLPVACVATLLLGLLAGFF NGVLVAWLKIPAI\ATLGTG\ LYRSIMLLWTGGQWIEGLPAEL KQLSAPLLLGVSAIGWLTHLVA FMAWLLAKTAFGRSFYATGDN LQGARQLGVRTEAIRIVAFSLN GCMAALAGIVFASQIGFIPNQT GTGLEMKAIAACVLGGISLLGG SGAIIGAVLGAWFLTQIDSVLV LLRIPAWWNDFIAGLVLLAVLV FDGRLRCALERNLRRQKYARF MTPPPSVKPASSATSDFIGIGIVA LPLTMVIVSGGIDISFGSTIGLCA IALGVLFQSGVPMPLAILLTLLL GALCGLINAGLIITYTKVNPLVIT LGTLYLFAGSALMLSEEQKNTK KTRQREDKKKEKKKQKRREEK
25052	55420	A	25190	1055	1206	SFALFSSSSPRSRP*FASTKS*TL TTGQVLPSTNVRFLTGNWGPPV VATG
25053	55421	B	25191	1	1386	
25054	55422	A	25192	1	449	MQDPLLALLEDYNGKDLEKQV PPAQSGPQPGKAGRDRPIVIML DPGHGGEDSGAVGKYKTREKD VVLQIARRLRSLIEKEGNMKVY MTRNEDIFIPLQVRV/AKAQKQ RADLFVSIHADAFTSRQPSGSSV FALSTKGGMCSYRGSGCLQ
25055	55423	A	25193	1536	1941	STSNQNSTALCRRRGLVHCIDG ANDDDSVMVWPSGSGRPWSAE PGAPQR\YAQLVVEDVELDLLH FIVFGDDVMLNVVLQGGQAFML ALGLVTNVGVLAHAHHHALVS GVPNDGGGTWVGRCVQQSQ LCTCWSHCQ

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25056	55424	A	25194	240	855	SRAGYAPAAAQKVASPYVRRE R*NQSD\PAVLTGIGERGK*LLS RDFFIAPLAGMIVEKRGAVHLA RWSVPVERKGQWQAPAGLWAQ FFLADIVCPAATALPDTTAEDQ HIDHPAVVHVHVIPVVNTCAED NHRAPMRFMGGIGKFTGDGFNI LARHPGNLLTPGWGVRFDPSVI FRTVFIFQPAIEAVIRQYQIINAD HRTGVAID
25057	55425	A	25195	840	1157	QYAPTAQPARPADPFALPTVQA RLTPFCYLVAKGDWCVYRRSY SLWHSVASPRVRQSPRLGY*GY TANSPGILLAPLSLRGEMFLPQD APKSVPPYKRGKSVAIN
25058	55426	A	25196	1076	1339	LVCVASMPVEISTDASASSGVI VISSAMSGSWSAETKRRLAMV* PEPLHLWAISIPTTSGRFTSSLIS PFPAR*YSPARYIPRVWRV
25059	55427	A	25197	2	118	
25060	55428	A	25198	1809	3145	ARHKQHAYGYRYRQSPRCYGV SGKKRGLRYYGSWLAISGSSRI TR/LLCMYLRRFFIGVIGADIAN MGISAGAMWLLSVSQVSLAAV SQVVAVRVWPASSYTRVTVES NRQLKYKQFALSNERVVVDIE DVNLNSVLKGMAAQIRADDPFI KSARVGQFDPQTVRMVFEKLP NVKPQLFALAPVAGFKERLVM DLYPANAQMDQDPLLALLEDY NKGDLKQVPPAQSGPQPGKA GRDRPIVIMLDPGHGGEDSGAV GKYKTREKDVVLQIARRLSLI EKEGNMKVYMTRNEDIFIPLQV RVAKAQKQRADLFVSIHADAF TSRQPSGSSVFALSIQRGARPVG DRYVDHTMFDMVQSLTIADSL KFGKAVLNKLGKINKLHKNQV EQAGFAVLKAPDIPSILVETAFI SNVEEERPNGQPGHPLDPATTM GTLIDCAHADSVQ
25061	55429	A	25199	1	277	
25062	55430	A	25200	902	1006	
25063	55431	A	25201	2	1265	
25064	55432	A	25202	409	525	
25065	55433	A	25203	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL

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25066	55434	A	25204	3	71	
25067	55435	A	25205	1	1212	
25068	55436	A	25206	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLDESGFFEWAAHLVLRWG YGPGRLPFNRIGLIRRRIRQR LLFGLVTFILLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVIYHSPG APDIREFTRDAIP
25069	55437	A	25207	5	402	EIFSVVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVTFLFHRI
25070	55438	A	25208	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25071	55439	A	25209	1	912	



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25072	55440	A	25210	1	1857	MRVCARACVTRTRMCMVYAH TCVVCVPTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIA YQDTPVPNAAT AISELNALAVKGVILTGDNPRA AAAIAAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25073	55441	A	25211	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTA TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVVFDADYL YELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHPPFLSCVQSDPAEPYLAR CGYAGNFMESPRGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHSGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25074	55442	A	25212	16	543	
25075	55443	A	25213	1	3387	

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25076	55444	A	25214	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTDFGVC TSASMNPVLTLRIRTRVTGEV AAIKPFSMANAPTDPDILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25077	55445	A	25215	905	4761	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTGDLGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGS ALGGALGIIAVLLRQEFLLVIM GGVFVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25078	55446	A	25216	269	1219	QTRTRRVQLQDLIEYVAIHQW/ FSDKHPVPFYSCIFDDSTNCYS WSISKDGYFIFGGAYPMKDGQT RFLTMKDKMSAFQFQFGKTVK SEKCTVLFPSRGQDFVCGKDNA FLIGEAAGFISASSLEGIIYALYS TDIPRSVLLKQPDKLNPAYWRA TRLVCITLFGQIVNTICMAAPDL RKWIMLSPVAHKGHHLEWVLH DMQILPVPRPSGCICSGSSTFFC NWGCPYDRPQWQLYPSMCLC VHIGPAPVRSEKVESKRAISKV DQDSAFRGCCRSNGNRNGGRKI VAVSLKKVSGAAKPCGHFRST RYRVAYSTIIN
25079	55447	A	25217	1	1158	
25080	55448	A	25218	1156	1899	LKLGIRYPQCQRLVTHSLDGISL PLHTAH*SQNSAENTHRAISLK AVPPFFTAERRGVNAEEHRNGR LINGECRQRFNVLRVANGVRN VQFAKARDRNDIASFRQIGFDT FQTEVAQHFTDFRVAGFAFAID DSDLLVRLHFTALDAANADNA NIAVVIELRNLHLERTVKVNVNR RRNVVNNRLVQRGHVFRHIFV VQTRDTVQRRSVNDREVQLLV GRVEVNEQIEYYADAFVIMLER LCKVLCCR
25081	55449	A	25219	1	2583	

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25082	55450	A	25220	278	787	TLLSATRQVYALLSTKPAFFSS HSSFSTSSRLISSRAASSMDVAF PIAFSASKTVSIKFFSR*KLLRNS HRPPFMVMRSIIRSPSNVFMAS* FRFVSIPTLRIDAVRRSTIWCS TT ARFSSRADAKFIKNVFQQAIPDS AAKWFFPVPGFPLNAKFVHPVI SSSAMDFA
25083	55451	A	25221	866	1144	
25084	55452	A	25222	19	1203	NWNLTPYASLTGFTADNPEYH LSNGMKS KSV DTRS IYRELGAT LSYNMRLGNGMEVEPWKAA VRKEFVDDNRVKVNSDGNFVN YLSGRRGIYQAGKDLDRFKNL VLVHAARYAADLSYLPLMQEL EKRYEGKLRIQTVVSRETAAGS LTGRIPALIESGELESTIGLPMN KETSHVMLCGNPQMTRRLIPAS VEVYHDSLCKRKIWHGWEQHIT ARYLVGADGANS MVRRHLYP DHQIRKYVAIQQWFAEKHPVPF YSCIFDNSITNCYSWSISKDGYF IFCGAYPMKDGQTRFTTLKEK MSAFQFQFGKTVKSEKCTVLFP SRWQDFVCGKDNAFLIGEAAAG FISASSLEGISYALDSTDILRSAL RKPIRTEQGANGAIRELEKFRPA
25085	55453	B	25223	58	359	
25086	55454	A	25224	4	329	
25087	55455	A	25225	1	1008	
25088	55456	A	25226	1	1335	

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25089	55457	A	25227	3	1886	HRLNITAENDCRRRLHCSLRDLS SLLQAVGRRLAEYFIGDVFAARF NDALTVVERLVKVTLYGSQIKL YNIETAVPSVLKPDLIDVHAQS LAGGCRLSAHWLAQYCSEIHR QNTQQFVTLISTTMDAITPLIST KVQDKLLLSACHLLVSLATTVR PVFLISIPAVQKVFNRITDASAL RLVDKAQVLVCRALSNILLPW PNLPENEQQWPVRSINHASLISA LSRDYRNLK\PSAGAPQRKMPL DDTKLIHQTLQRLRKILWENIS G\ESTKSSTDFAYQFGCRESV\Q VSLGLFPAFVHQSDVTDEMLSF FLTFRGLRVQMGVPFTEQIIQT FLNMFTRQLAESILHEGSTGC RVVEKFLKILQVVVQEPGQVFK PFLPSIILCMEQVYPIIAERPSP DVKAELFELLFRTLHHNWRYFF KSTVLASVQRGIA\EEQMENEP QFSAIMQAFGQSFLQPDHILFK QNLFYLAETLNTKQKL\YHKK\I FR\TAM\LFQFVNVLQVVL\VH KSHDLL\QVEIGHRHSYNMASV DF\DGFFAAFLPEFL\TSC\DGV\ DANQKSVLGRNF\KMDRLCPCL PGPAPHSRPMCTGWSTTCGLLT DSGNDSLAPWGLWKLLGPCLL PGGTRDFLLVAT

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25090	55458	A	25228	689	3053	VDCRMS/FSYIEKFTDFLRFLFVS VHLRRIESYSQFPVVEFLTLLFK YTFHQPTHEGYFSCLDIWTFL DYLTSKIKSRLGDKEAVLNRYE DALVLLLTEVLNRIQFRYNQAQ LEEL\DDETLDDDQQTEWQRY LRHSLEVVAKVMELLPTHAFST LFPVLQDNLA\EVYLGQQFIVTS GSGHRLNITAENDCRRHLHCSLR DLSSLLQAVGRLAIFYGDFVFA AR\FNDALTVERLVKVTLYGS QIKLYNIETAVPSVLKPDLDIVH AQSLAALQAYSHWLAQYCSEV HRQNTQQFVTLISTTMDAITPLI STKVQDKLLLSACHLLVSLATT VRPVFLISIPAVQKVFNRTDAS ALRLVDKAQVLVCRALSNILL PWPNLPENEQQWPVRSINHASL ISALSRDYRNKPSAVAPQRKM PLDDTKLIHQTLVLEDIVENIS GESTKSRQICYQSLQESVQVSL ALFPFIHQSDVTDEMLSFFLT FRGLRVQMGPVFTEQIIQTFLN MFTREQLAESILHEGSTGCRVV EKFLKILQVVVQEPGQVFKPFL PSIHALCMEQVYPIAERPSPDVK AELFELLFRTLHHNWRYFFKST VLASVQRGIAEEQMENEPQFSA IMQAFGQSFLQPDHILFKQNL YLETNLTKQKLYHKKIFRTAML FQFVNVLLQVLVHKSHDLLQE EIGIAIYNMASVDFDGFFAFLP
25091	55459	A	25229	1	853	MISVANEIAEAGFDPQGRTSED LLDLAESRVFKIAESRANKDEG PKNIADVLDATVARIEQLFQQP HDGVTGVNTGYDDLNNKKTAG LQPSDLIIVAARPSMGKTTFAM TLVENAG\MLQDKPVLIFSLE MPSEQIMMRSLASLSRDQTKI RTGQLDDEDDWARISGTMGILLE KRNIYIDDSSGLTPTEVRSRARR IAREHGGIGLIMIDYLPIMRVP ALFDNRTLEIAEISRSCLKALAKE LNVPPVALSHLNRSLERAEER PGNSDLGESGSIEQDADLIL

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25092	55460	A	25230	206	1073	VKITSWLMSNSALPGTLKLLAL ILKCSTCVRVLPRLSELRLNER/Q GQLDSVGGFA/YLAEL/SKNTPS AANISA/YADIVRERAVVREMIS V/ANEIAEAGFDPQGRS/EDLL DLAESRVFKIAES/RANKDEGR NPMFDDRGRGEPSDLIIVAR PS/MGKTTTFAMNLVENAAML/Q DKPVLIFSQTKI/RTGQLDDEDW ARISGT/MGILLEKRNIYIDDSSG L/TPTEVRSRARRIAREH/GGIGL IMIDYLQLMRVP/ALSDNRTLEI AEISRSLKHFEKLALICGCRNNG TTRYCKSLLA
25093	55461	B	25231	1	483	
25094	55462	B	25232	287	635	
25095	55463	A	25233	1	2469	MPSDISLASCLRLATSRSLFTDHR RQSDCMTAINRIPVDDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEDGIKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRRAKGAFIKVNC AALRESLLESELFGHEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSSNQRDHIDPMA MSLLTASWPGNIRELSNVIER AVVMNSGPIIFSEDLPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTRTAL MLGISRRALMYKLQEYDATGF FRDGMTIMVGGFMGIGTPSRLV EALLESQVRDLTLIANDTAFVD TGIGPLIVNGRVRKVIASHIGN PETGRRMISGEMDVVLVPQGT IEQIRCGGAGLGGFLNPTGVGT VVEERQTSIDTSTRKRPFLGRP SRNNDKGIRPRSGAGSEYPR LHDSLKRLQTDYLDLYQVHWP LRPFYCFGKLGYSWTD SAPAVS QLDLDALAEYQRAGKIRYIGV SNETAFGVMRYLHLADKHDLP
25096	55464	A	25234	1	891	
25097	55465	A	25235	1	1614	
25098	55466	A	25236	1	946	

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25099	55467	A	25237	1055	1474	NGVKSKPPPNHQTGSAPGFSAI KNRTFAWPTLPNTSCWANTML IGSRELGIRSSQSGPLLGVVRVWC /CRCRGTTQG/HSQGKDG/IPENGI RAYKFTSS*ASFRNSACFRQPSR IKPLRKATWLLCGLSTRHLITK RLSSPDWA
25100	55468	A	25238	2036	2743	DLLIRQMPLLSRRVIPVIRVPVT GVLWKSFTPRITIFGH/ALIDQH SMIVAAQGLTPDHQLLLQIYDR ARVSASRIVHQAQIYGDAVVR YAFIEHRAEVDFASIEGNEENN VWLCDCAKVYGHAQVKAGIEE DAIPTIHYSSQVAEYAIVEGNVCV LKHHVLVGGNAVVRGGPILLD EHVVIQGESRITGAVIIENHVEL TDHAVVEAFDGDVHVVRGPKV INGEERITRTPLAGLL
25101	55469	A	25239	2234	2571	IMSSVDSSLVPLKAMVPSRITL IRSAIWRISG/RLMRDKNNTHAS SKQLLQATKQAFGRGKRG RFIEDQNPRVAHQPAEDFHHLA IGDIQRSCQTMQIKLAAQRRQQ VLH
25102	55470	A	25240	659	1206	WKSTSN TAKAKPGSVMVAVDLR IPIRFGVMLSAA/FGDDVVDLIA QVDLVTTAVGPVVLERIAPAIA KGQVKRKEQGHEsplNIACEN MVRGTTQLKGHVMNALPEDA KAWVEEHVGFVDSAVDRIVPP SASATNDPLEVTVETFEWIVD KTQFKGALPNIPGMELTDNLM AFVERKLFTLKH
25103	55471	A	25241	332	683	ALPGR*RHVHLPGSAYEWDA EPAQESDELSLKMLTAICWLTA TA/STSLKI*R*KVALRCLVGRIR RLRRIRQQCQLLMRRSRVLSGR LSSV
25104	55472	A	25242	1	841	MVKVAGECRVRASAHLPGLNR STKNTEDRGANNQEGTNTQKT RGETNERLKKNEHRDLRLARY PAKENNKQGDKNKPRTYEKL GTVTHQEPHHDQSPGLCLFR TSRAQVERGPTVLLLISQENQIE RYSDNHSQNLCLRVPTVTTQ RRDYDIAERYRQGIKLPARKE RLMTIAERLRQEGHQIGWQEG KLEGLHEQAIAIRMLLEQGF RDQGIARRASCQRQQRSSLPT P/EHCCAISGATARKPAALPAAR IRRILVSIIRCTSGCPALSG

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25105	55473	A	25243	240	651	RCPPQSCLLAEGRWCG*K/CRK VSV*SNRYR*SRLSLGELLRAYS RNRDLPGF/SSGSARVLVATDV AARGLDIKSLELVVNFELAWEP EVNVHRIGRTARAGNSGLAISF CAPEEAQRANITSRPPHPAHIAS DHQSTP
25106	55474	A	25244	1455	1643	RDPHQICVAESVYLA AFVLLCA GLCVRRRSTTGARNAAAAC*N GLW*AEAQCPAYYVCPVVG
25107	55475	A	25245	549	641	
25108	55476	A	25246	1378	2084	PNFGYSPPASSCGQVSQNSS*LQ CSVSGRDKMLRTGPCARTVSSS YLMGVFSRDA**DAR*VCACH NTIAALSASAERFTSCERASHSE ARSGCCNSVRVMSNNPCCPRSL IGVYDILFFQESTAKRCKRSLSG SGSACGKSRVRFTPYRPARRTP LRSTTSPISAASFPSGWECNAAS TCSAALRSTAITSLPSLAKFRAS SPSNSQTPRTAGLTGSAASESSI PQPQAAANS
25109	55477	A	25247	1134	1428	GPCGCCSSNVARCASQTSSRFA AV/WHGAIGAR*LNAADNRPLWI EITREHAELPGKTGRRMETKQR RAITFTQRQNGFESHTPGAVFFS INNRCQFGDR
25110	55478	A	25248	96	535	RPQTTVQPALYVAEQSICSQPC* *FSTKCDRKPAAVLAPAGYAAL PVLFSKLDGSLRWNSASG RRQNGSFSCAALASKRPASASS KLNSA**SLPSAVFAAPVRVAA SMIISGFCALASIRPSASTRRPSA SVFITSTFLPLR



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25111	55479	A	25249	1471	3026	SPLRSSVACRGWHRKNNRRGW CPRRGDPARPVRLSLQ\HATAIII VATPGRLLDHLQKGTVSLDAL NTLVMDEADRLMDMGFSDAID DVIRFAPASRQTLLFSATWPEAI AAISGRVQRDPLAIEIDSTDALP PIEQQFYETSSKGKIPLLQRTL RFANGSARVLVATDVAARGLD IKSLELVVNFELAWDPEVHVHR IGRTARAGNSGLAISFCAPEEAQ RANIISDMLQIKLNWQTPPANS SIATLEAEMATLCIDGGKKAKM RPGDVLGALTGDIGLDGADIGK IAVHPAHVYVAVRQAVAHKA WKQLQGGKIKGKTCRRCYPLA APYVRHCSLVGRAASHQALWH VAGFGLYALFRRTGGCRLRCR YSGGLRLIRPTVAAGICRPDKT RKRRIRHRAPFPDAARAPYPAY RSQYNQFFFTNSDFSFIGPKPSM LQSMLCAPCNQADVHFHGANV SASKSYLFTFRSLMMVTLSPCS QQIAVSIFNDQLVAFLCRFCVV PLRRHIHGQMYMPLSS
25112	55480	A	25250	196	330	
25113	55481	A	25251	62	617	NRRLPSGGDEMSAQVSLELHH R\SQFLVQESSCWTDW\KFRD GVAQLRPKEVRF\TMRTTVNGQ TRVPRKGVQPPTTWIFNDTKDQ LERRIARLETGMAWAEPPSRT RHLISNCQISETDIPNVFAVRVN YLLYRAQK\ERDETFYVGTRFD KVPPSE\DTTWRCCLKRDIVLDQ AVITSHNLSVLF
25114	55482	A	25252	1	318	
25115	55483	A	25253	1	510	
25116	55484	A	25254	9	79	
25117	55485	A	25255	1	361	
25118	55486	A	25256	863	1245	FSQIYLARSALSSAHSSRSPWQH SVWTLVRSVTNLETSANSALG NLWLRRATAHALKALSPNFWR LAHLSLCLADEAFPSSRS/IIELW QQAGSFISSLATFCKSSFIPFSKE KEFRGIKVRMSSGNFI
25119	55487	A	25257	909	1069	GILSPFLVFRVFKDQIVVDVW YYF*GLCSVPLVDISLVVPVCC FGYCSLVV
25120	55488	B	25258	1	1878	
25121	55489	A	25259	778	990	
25122	55490	A	25260	312	635	
25123	55491	A	25261	4047	4276	

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25124	55492	A	25262	1599	1776	WFPASSMSQPKKAQDQDTSQP NSTRGTERS WYHSF*NGSKQ*K KSNSSPTHFMRPASS
25125	55493	A	25263	1	162	
25126	55494	A	25264	1	3370	MNRAPIPKQSKDKTSRETKNTS RSKTRERTDELEGLSTDNHAET QHAETNTDMTHERYTQIRNHT YKTTHQMEDKRTKPKREKEIH NRPDDMAKAGIPRSILNTGHPG KLMQTEVHHVRTLKIMLKVYS RALQEELQFSSKAIGRLFPCAD DLLETHSHFLAQTHERSGYVPL CVCATHTKFYEFMEDVNTAYT KRHTMFRSLSMVSECLFSLING DDMFVTFAMQAQQGRSSLV WLFSQLYLYSFISLFIYMV
25127	55495	B	25265	44	238	
25128	55496	A	25266	1	444	MPAEFITG\ERS\SEGFF\RIHAGI EQAISRGLAYAPYADLKNLDD KTIASFQQQLSDMGYKFQFITL AGIHSWFMFMDLANAYAQG EGMKHYVEKVQQPEFAAKKD GYTFVSHQQEVGTGYFDKVTTI IQGGTSSVTALTGSTEESSQF
25129	55497	A	25267	710	1395	DLPGISSKWVIAVIFGHLIVGIFI PPAIIVRAGIT*RQVR/WIAAHE GKAPQQIIMAHLDTYAPLSDA DADANLGGLTLQGMDDNAAG LGVTLQLAERLKNTPTHEYGIRF VATSGEEGKLGAENLLKRMS DTEKKNTLLVINLDNLIVGDKL YFNSGVQTLERHQRSFNTVKP WPDSVISNRPFAGNTGSVDDND EIQRNLNDTNYNRMWEYNNRG VGSKVVAEAKK
25130	55498	A	25268	2	2105	
25131	55499	A	25269	754	1133	RAANQHQTVDLTRLQTRIAQR LFNRHSQAIEQRQPQIFQFVLVK FAFPRFFLILPANVQWRLIATFC RFHTGVQGCQFTLVKRGPGDIR DYQQTNLDWYNSRNTTKLDES VNRV/HAAIQS*RQNGL
25132	55500	B	25270	1	1275	
25133	55501	C	25271	1	1167	

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25134	55502	A	25272	275	2424	SPAMHFQSFT/WQNNLDDNTIA SFQQHLSDMGYKQFQITLAGIH SMWFNMFDLANAYAQQGEGMK HYVEKVQQPEFAAAKDGYTFV SHQQEVGTGVYAASGNSLLLM RALNAAWPGIIDCSNHFARLRC SVWSIPRSDLRCAAAFRTGRLA CCPAGDEKPYPYSLRSSRWSGRG ATALHYTAKRCRCPDKTRQRR RQPARALDVGCGVTALSDLP CRTSQRCRCPDKTRQRRIRQPAR ALDVGCGVTALSDLRGAALHG SLANYRVVNFRLPDAMILSV LLRSCPFVFP LLRRLRAGAPVGP YCTGTPITPLPSTRLFAPLPNRC SMAGMYGGLQVPHPAIGARC LMRCLTHLIRPTMTGTGSM AEE ALGTSFKRLCAHYSRMRCWRIL SGLRGARPNKIVCRIRRLRRIRPI LRLRFP RHRVVFIFGGGNPRR AKQRQTGEEVEKCHQPOHGTK CCARGGFAACLVFEYVVVFWT SLPDSFCRKSFPTRIRGSMVPSL WDFPPGVDGRKGGKTSWNGVPG PCVTCGLGLTCPESPCCPGLSLG DGYPEKVS VGPPIPLKFQAILQA FHEIFGEGSCHIASVAVESGVPE QPFGEETRAGARNRVANARR LLPEADFWVAIEAGIDGDSTFS WVVIENASQRGEARSATLPLPA VILEKVREGEALGPVMSRYTGI DEIGRKEGAIGVFTAGKLTRAS
25135	55503	A	25273	1	441	
25136	55504	A	25274	3	2919	AVSNCSEGLSKEWGPRPCRHR GMEKLPLGGKFWPTQ/EAVRT VRARLQAD/VTGVPTVLVARTD ADASDLITSDCDPYDSEFMTGE RTSEGFFRTHAGIEQAISRGLAY APYADLVWCETSTPDLELARRF AQAIHAKYPGKLLAYNCSPSFN WQKNLDDKTIASFQQQLSDMG YKFQFITLAGIHSMWFNMFDLA NAYAQQGEGMKHYVEKVQQPE FAAAKDGYTFVSHQQEVGTGY FDKVTTHIQGGTPDKAFT
25137	55505	A	25275	432	549	

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25138	55506	A	25276	652	2689	KFSVGYAVQNFNATVSTKQFQ VFSEQNTSSYFAEPQLDVNYYQ NDVVHFVTTTRDDMPEATRVHL EPTINLPLSNNWGSINTEAKLLA THYQQTNLDWYNSRNTTKLDE SVNRVMPQFKVDGRMVFERD MEMLAPGYTQTLEPRAQYLYV PYRDQSDIYNYDSSLLQSDYSG LFRDRTYGGLDRIASANQVTTG VTSRIYDDAAVERFNISVGQIY YFTESRTGDDNITWENDDKTGS LVWAGDTYWRISERWGLRGGI QYDTRLDNVATSNSIEYRDE DRLVQLNYRYASPEYIQATLPN VNHITMEHLHMKTRTQQIEEL QKEWTQPRWEGITRPPYSAEDV VKLRGSVNPECTLAQLGAACKM WRLHGESKKGYINSLGALTG GQALQQAQAGIEAVYLSGWQV AADANLAASMPDQSLYPANS VPAVVERINNTFRRADQIQWSA GIEPGDPRYVDYFLPIVADAEA GFGGVLNAFELMKAMIEAGAA AVHFEDQLASVKKMRHMGR ASDQPWLAYAPYADLVWCEPP PPDLELARRFAQAIHAKYPGKL LAYNCSPSFNWQKNLDDKTIAS FQQQLSDMGYKFQFITLAGIHS MWFNMFDLANAYAQQEGMK HYVEKVQQPEFAAAKDG YTFV SHQQEVGTGYFDKVTTHIQGGT SSVTALTGSTESQF

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25139	55507	A	25277	134	1695	FPDPARLPPVSVNHHITMEHLH MKTRTQQIEELQKEWTQPRWE GITRPPYSAEDGGKLRGSVNPEC TLAQLGAAMWRLHGESKK GYINSLGALTGGQALQQAAGI EAVYLSGWQVAADANLAASM YPDQSLYPANSVPAVVERINNT FRRADQI/QWSAGIEPGDPRYV DYFLPIVADAEAGFGGVLNAFE LMKAMIEAGAAAVHFEDQLAS VKKCGHMGKVLVPTQEAIQK LVAAARLAADVTGVPTLLVART DADAADLITSDCDPYDSEFITGE RTSEGFFRTHAGIEQAISRLAY APYADLVWCETSTPDLELARRF AQAIHAKYPGKLLAYNCSPSFN WQKNLDDKTIASFQQQLSDMG YKFQFITLAGIHSWMFNMFDLA KAYAQQEGMKHYVEKVQQPE FAAAKDGYTFVSHQQENRSSK QQQPLLTVGRIRRSRRIRQSVPR TGIGCASRRFNTAKPWADAVIS NRPFAGNTGSVDDNDEIQRNLN DTNYNRMWEYNNRGVGSKVV AEAKK
25140	55508	A	25278	230	380	
25141	55509	A	25279	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*TH\FNPVLKKSVSLSGS NIRHMLAEEATTEELDGT\GPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25142	55510	A	25280	243	430	RRPSYSVLQRLPSAVLLPPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRSAFRNP
25143	55511	A	25281	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA\QACQRFHFIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVPDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLQLCRR
25144	55512	A	25282	803	1622	
25145	55513	A	25283	498	686	RRPSYSVLQRLPSAVLLPPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRSAFRNP

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25146	55514	A	25284	1	2063	MKNFMENVLRYLSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAAFDHFPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLNKGGSVLIMEN VMSNLKEESASGFVRLDAAG LSMALNKSVVNNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRRK NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARH YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGHIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYLK DNLTYYADKMNAAPPELNWQIP QSTYLAWDLRPLNIDNALQ KALVIDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETLIPHVQVIANEPDLV SFLTCLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25147	55515	A	25285	3	371	
25148	55516	A	25286	63	180	
25149	55517	A	25287	2	205	
25150	55518	A	25288	495	707	REFSSHQKGLRDRPAHKAVLG DNQLFSGGTGAPVWPG/HSENV VPVDPTMKRLPDDVNHPLDYL YWRLSFA

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25151	55519	A	25289	1	1713	MTWAYSPSYGKPLSVPGIIGL MTRFGMDVTLAHEGYDLIPD VVEVAKNNAKASGGSFRQVTS MEEAFKDADIVPKSWAPYKV MEERTELLRANDHEGVK\APEK HCL\AQNAQHK\DWH\SIEMM EP\TREGAEQNKHGRPAEINGA SCKEGRSDQKAYDEKSRPDEM PIDDNVVLNKGDLVQVSGDAR RVKTIADRIGFISIHSQVTDLLAF CAFFVIGLMIGMITFQFSTFSFG MGNAAGLLFAGIMLGFMNRANH PTFGYIPQGALSMVKEFGLMVF MAGEIQVDGNTIYPHIWKSCDG GVLFAKQYLLRLGIILYGFRLTF SQIADVGISGIIDVLTLSSTFLL ACFLGQKVFGLDKHTSWLIGA GSSICGAAAVLATEPVVKAES KVTVAVATVVIFGTVAIFLYPAI YPLMSQWFSPETFGIYIGSVIEV GVDVPNASLMIENPERLGLAQ LHQLRGRVGRGAGLLTACCST KRRFLKAAPEVTRTGLADDRSS GLPLQTGYELASMQGLVDVVR LSPQGTDTFAMLDAFRANENG AAPLPLTANSDCNGYWRRLAG
25152	55520	A	25290	629	1054	ASGRFREVTG/MEEAFKDADI/V YPQSWAPYKVMEEERTVLLRAN DHEGLKA\LEKQCLAQNAQHK DWHCTEEMMELTRDGEALYM HCWPADISGVSCKEGEVTEGVF EKYRIATYKEASWKPYIIAAMI\ CPVNTPNQVHCSSNC
25153	55521	A	25291	235	780	
25154	55522	A	25292	1	2783	MTYRNNHQTGVAFLFQTKFCIE DGGVKTDFGYRVQTQSRHAEQ EVTDVEINLFCPLCHIMQIFTV HISEELATFIVRGFRFRGKAAI GIFLVNNQLQPDIVHRGFCTEH HDVRGIKHFTLVEHVITGSGFG NTRFTFFRAGNNKMPRLGVGA GWAVLQGVVPRFGVWPLPEYP AYACGKFNGAIRAGDAAQLAA YAQAFIQLHGPIDAGDGVNRA DHRAGDFFEIVFQNLFAIADVD LAINHAVNAQLRLRNP

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25155	55523	A	25293	365	722	TSCLSALAIK/QQHLDEKKELG HLSAGARRLILGIIIVTF/CADSG VNLRYSAV*PAGAVYLPDAAV GGSADRTADAGALLGANVDCA VADRFLPLYLVALHLYAELGRS GQPGVRAYSALR
25156	55524	A	25294	798	1094	
25157	55525	A	25295	1	2780	MGIVASASVQAAEIYNKDGNK LDVYGKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFMKTRASGLATYR KTTSSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLIILVPLIVGYLIPLRQQA
25158	55526	A	25296	66	300	QSTYCDNPPVPVSRGL*P*RRSS STSSAGYQK*RYCQHRHDPASR IRTVQRTDSQRTVKRKFMLLVP EASVPASEIC
25159	55527	A	25297	240	424	RCSRDEHDFQLIANLRIVVITFA TFA*CTA*LPLGNHSVVAAH*A G*GGAPVTAQVFVQHG
25160	55528	A	25298	1	1425	
25161	55529	A	25299	1	471	
25162	55530	A	25300	1269	1390	
25163	55531	A	25301	601	1119	VAAGAV*RGH*NVQLGKLFFV ASDLRINAIAGGVVVF*FIQGL TNAIGSGFNNARCKPTGQVA ADGGRDAGFFTIANNQCTYAA GIFFQCSGEFVGIFQFAIAGIGR DTNLRQRFIAGRTDGITQHRFQ LRLNRPQRGVAEQCTIARTLAIS SRMAVYLVRLKVSISEL
25164	55532	A	25302	1666	1769	RLKRHPPLRPSWPPY*TGAAHVW HFSPLANWKPGI
25165	55533	A	25303	1	1970	MKDDIFFRTSGGGVTLSGGEVL MQAEFATRFLQRLRLWGVSCA IETAGDAPASKLLPLAKLCDEV LFDLKIMDATQARDVVKMNLP RVLENLRLLVSEG VNVIPRLPLI PGFTLSRENMQQALDVLIPLNIR QIHLLPFHQYGEPKYRLLGKRW SMKEVPAPSSADVATMREMAE RAGLQVTVGEKWGVSIETQGA LGTENRLADEDIRRADVALLIT DIELAGAERFEHCYVQCSIYA FLREPQRVMSAVREV



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25166	55534	A	25304	2804	3494	LSLAEWKCLNPSQRALYREVM LENYRNLEAVGQLQPQSTQRIP *GRICNGDRLTSQKGLDL\VLEA LPGLL\EQGGQLALLGAGDPVL QEGFLAAAAEYPGVGVQIGY HEAFSHRIMGGADVILVFNRF PCGLTQLYGLKYGTLPVRRTG GLADTVSDCSLENLADGVASG FVFEDSNAWSLLRAIRRAFVLW SRPSLWRFVQRQAMAMDFSW Q\VAAKSYRELYYRLK
25167	55535	A	25305	1	1306	
25168	55536	A	25306	818	1658	
25169	55537	A	25307	2611	2826	
25170	55538	A	25308	609	2359	PPPKIAPVWGCRKKSLPARSKSI FCFALFFPFLNGEIIIPESPCPF WTLFRNDGGKKRDPLAPVYLL GKLTISPGPICPDMIGVLFSTV RREVAHIGNVQHRFCGPLFLKL VEFIDFILTIDIAAIRQYLVVICE VDQRINQIAIATRIFRTGYTAAD LRQHLMQLLIFLVVFTRFVALT TQFFHFFRCVTKNKDIVSTDMI QHLDIRTVQRTDSQRTVKKRLH VTGAGSFRPCQRNLFRQICRRN DQLRQANAVVRDEHDFQLIAN LRIVVDHFRYVIDQMNNVLRH VIGRSRLTAKNIHARYPLRIRVG LDAVIAEMASGLDPFWRPDVV HAHDWHAGLAPAYLAARGRP AKSEFTVHNLAYQGMFYAHH MNDIQLPWSFFNIHGLEFNGQIS FLKAGLYYADHITAVSPTYARE ITEPQFAYGMEGLLQQRHRERR LFGVLNGVDEKIWSPETDLLLA SRYTRDTLEDKAENKRQLQNA\ MGLKVDDKVPLFAVVSRLTSQ KGLDLVLEALPGLLEQGGQLA LLGAGDPVLQEGFLAAAAEYP GVGVQIGYHEAFSHRIMGGA DVILVPSRFPCGLTQLYGLKY GTLPLVRRTGGLADTVSDCSLE NLADGVASGFVFEDSNAWSLL RAIRRAFVL/WSRAGSWRY SAR AIRCCRKVSLRRQRNTPVRWAF RLAITKHFRIALWAARTSFWCP

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25171	55539	A	25309	1028	1632	TSASAGTARNFSSNFAVRTTGH STSEATSSSRLSLKSALPPILRAA SSASALMFFVIGDDFPTSRRISG Y*SALSMVNSGSPIKRWPRITRS D*MPRMVAGMTLSP/MQQGHG VHRTHEVHVVPQRISFGIGSF AREVATIFGSSASVFRR*YRNH APNLLTLCVCLQRRTPGQSPG RVFRFHDVPVAFRQVSYFQRQTP IA
25172	55540	A	25310	1	336	
25173	55541	A	25311	1889	2257	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPSSRVTVCTGRKCTSL APQRISFGIGSFAREVATRRPYR DIKEGFSQREAALLPQSLRVPQ TGTWSAAGAQA
25174	55542	B	25312	1	735	
25175	55543	A	25313	1439	1744	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPMQQGHVPWQLMVVL WNTRQRWKPSSPDRYVNRAMS LPSRKGEMLKPAPCRK
25176	55544	A	25314	1209	1972	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPSSRVTVCTGRKCTSL APQRISFGIGSFAREVATIFGSSA SV/HFALHMGAIQQPFAFIGSQT LSLVNGNTATTQPQSAALLGLP SASNAWAIAGPRFSISRGCASA RLATFSARRRGASKPLNGCLLR ATLSSPDKFQQGSTGGMLWGV LRHSPKFSITADGREFTLHWP TGAMTGATPGEYVWYSTFDN TQRKYPHPWEL

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25177	55545	A	25315	1	1521	METQHRMLMRTFQPRQQDWTY ALWGGVKLRWLFFFLWGLFLF AGEEELGIRQTRTNDLVTGDN LLRIFRFDVGNEDKVRQQFAVV RIHREVFLVTFHGVNQRF SRHR EEFLFEFCVTPKLN EGTTQRTN NRGIAVLNTGHRHPDLVA AVE QQLQQFTHTAYQIVPYESYVTL AEKINALAPVSGQAKTAF FHP GSETG\ENGVKMVRAHTGTPG V\IAFRGG\FHGRTYMTMALTG KVAPYKIGFGFPF\GSVYHVPYP SDLHGISTQDSLDAIERLFKSDI EAKQVAAIIFEPVQGE GGFNVA PKELVAAIRRLCDEHGIVMIAD EVQSGFARTGKLFAMDHYADK PDLMTMAKSLAGGMPLSGVVG NANIMDAPAPGGLGGTYAGNP LAVAAAHAVLNIIDKESLCERA NQLGQRLKNTLIDAKESVPAIA AVRGLGSMIAVEFNDPQTGEPS AAIAQKIQQRALAQGLLLT CG AYGNVIRFLYPLTIPDAQFDAA
25178	55546	A	25316	114	187	RSTISSVRYGDDAFKP* RQAWN VL
25179	55547	A	25317	105	317	YLFFLSRFNHWISMEKKLGLSA LTALVLSS\SWARVFSVCRKIW RQLPARQHCSSAGVLLALAFYC WPLPC
25180	55548	A	25318	1	593	
25181	55549	A	25319	1	729	
25182	55550	A	25320	1	1005	
25183	55551	A	25321	1	1361	
25184	55552	B	25322	1	2793	
25185	55553	A	25323	27	255	

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25186	55554	A	25324	225	1408	RIIYMHMESQKIWFALSTPMEIR NECCLPSHSSPKMYLGACLFPL SSSWGIDDRDDLRTIHRMIDN GHAARLAGFYHRWFRYSPCEW RDYLAELNEQQQAYAQFVAST AECCGEGGIKAWDYVRMGFLS RMGVLNNWLSEEEESLWQSRH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLREFLAQET TDVDIIRRAYLALLPSFHTETDP QGFKQLRHAYDDALPIAQSPAK SVLQPEEYEWALLVEMLGLL HRIAMVQLSPAALGNDMAAIE LRMRELARTIPPTDIQLYYQTL IGRKELPYRTCQLHACTSADTP LRKIPRFSGLHFYAFCPNIYSS YHSAKYGGSCQPGSTAHLRG YYWRWHFIAGLCHADPHAHSS
25187	55555	A	25325	230	380	
25188	55556	A	25326	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*TH\FNPVLKKSVSLSGS NIRHMLAEEATTEELDGTGPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25189	55557	A	25327	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA\QACQRFHIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVPDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLQLCRR
25190	55558	A	25328	803	1622	
25191	55559	A	25329	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRRSFRNP

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25192	55560	A	25330	1	2063	MKNFMENVLRYLSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAAFDFHPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLKGGSVLIMEN VMSNLKEESASGFVRLDAAG LSMALNKSVMNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARH YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGHIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYK DNLTYIADKMNAAPFELNWQIP QSTYLAWDLRPLNIDDNALQ KALMDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETIPHVQVIANEPDLV SFLTKLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25193	55561	A	25331	2	696	FLLLLWEIRKSSQQTTPTEMNA AEMAQLVAGVDEVGRGPLVG AVVTAAVILDPARPIAGLNDK KLSEK\RRALYEEIKEKALSWS LGRAEPPEIDELNHLATMLAM QRAVVGLHIAPEYVLIDGNRCP KLPMAMAVVKGDSRVPEISA ASILAKVTRDAEMAALDIVFPQ YGFAQHKGYPYTAHLEKLAEH GATEHHRRSFGPVKRA/LGTCV LILVSRLSKPESEDVL
25194	55562	A	25332	2	63	
25195	55563	B	25333	138	182	
25196	55564	A	25334	356	706	ISDICAPNMVSAIHAIPYTATMA IIPERKTSFFEIDAGLVLVRIISA PVSSINI*ITSTIDSGLPKDGRRS ESAPRRATTAIAPRKIHASQLL VVIIIRSLVGCRRMRWRVLSL
25197	55565	A	25335	1746	1873	

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25198	55566	A	25336	1998	3626	PKAARMANVPNNTTGTAMVGI SVA/RHILQEIQIHQEHQHNGFE QRFYHFVNRKLDEWRGVIRVE NLHS/AAGRMAVIPPVLP*WLS RYREHSRRLPA*SPKGEEASNP EVIARTLRKLKNQPELSEDTIKK AVESLSLELVLT AHPTEITRRTL IHKMVEVNACLKQLDNKDIAD YEHNQLMRRLRQLIAQSWHTD EIRKL RPSVPDEAKWGLCRNGK TACGKAYQITWAE LNKQLEEK PRLQTCPSKFGSGPFYF
25199	55567	A	25337	243	604	PRFPFLPPATSSVQTAMTDG*N ECERICVGYLRYSSHSAPDARR QRARTHVPVGKHALPALTKAT HPSWWWQCAAMAEDSTDARQ LKA*WGVNGFLDLRSATMDGR LYPVAMCLLPATK
25200	55568	A	25338	1	3287	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWVFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSAVVEETR EAVDTTSQPVAT
25201	55569	A	25339	1	1425	
25202	55570	A	25340	534	1391	RQKRRLYQTYWYKQQPRYLPP EHRQRHRHQSAGVSRPYSYG EVRPLSQYQPEWQCWEPDVEW VRQPPQDAITDPDFCFYQPGM TFEQFVREFAEWFSQKRPAAM MIGIRADESYNRFVAIASLNKQ RFADDPWTGGHSWYIPIYD WKVADIWTWYANHQSLCNPL YNLMYQAGVPLRHRMRICEPFG PEQRQGL\WLYHVIEPDRWAA MCAR\VS\GYTTGGLYPGQARG AAV*TEALKPSGLPQVCALNQC LLSVHRYAGHVQRERC DGADG RPAVHERRQLL
25203	55571	A	25341	786	1009	HHSHEQQFQWPVGASGVDRW AVYLHQICPLTQFQY/WCRARQ EGIMSSPGQQVGFIA*VTSSFSP R*KGRRVSSA
25204	55572	A	25342	2446	2970	
25205	55573	A	25343	1	2184	

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25206	55574	A	25344	706	1293	IHRLIRRIHQIIDLRIWQRTVEI HGAPVRFIQMAAWTHIAVLLT* QLRQLRAGFQRNSWAIFYFFHH RKQYIFHFDLRRFPVIMHALFC AVQRCADLMAHRRQKRRFCLA GFFCFRPCLSVFYHQFLQFSCTR FDLRRQLFAVAIQCMNIAFAAA LVDFDLDPIDGITLARQLAQQY PSLVLIGFSAHVIDETLQ
25207	55575	A	25345	1	3291	
25208	55576	A	25346	882	1019	
25209	55577	A	25347	1	2265	
25210	55578	A	25348	284	535	CVAASVTGTRVLIPLLNNRSR RSPVRYVSKGNWWGVCNCAS NNSNSVSR*SLPPMRSHA WRKV RRIMRQLPLERPRPGFTI
25211	55579	A	25349	131	208	LVRWLLSPGW*WKISPIISICLFP V
25212	55580	A	25350	1	3108	MDSQDKYFEATQTVYEWCGV ATQLLAAYILLFDEYNEKKASA QKDILIKVLDDGITKLNEAQKS LLVSSQSFNNASGKLLALDSQL TNDFSEKSSYFQSQVDKIRKEA YAGAAAGVVAGPFGLIISYSIA AGVVEGKLIPELKNKLKSVQNF FTTSLNTVKQANKDIDAAKLKL TTEIAAIGEIKTETETTRFYVDY DDLMLSLKEAAKKMINTCNE YQKRHGKKTLEFETYLTDPVTF RERLQMSIYKIPLPL
25213	55581	A	25351	1	296	
25214	55582	A	25352	3	164	VGD/NVGTTARWGIFALIIVETL AWFTVVASLFAQHKQRAENLI QRLHLLWSFNP
25215	55583	B	25353	91	990	
25216	55584	A	25354	1146	1881	RCGVQ\WTMYIRAVFVNLTNP KSIVFLAALFPQFIMPQQPQLM QYIVLGVTIVVDIIVMIGYATL AQRIALWIKGPKQM KALNKIFG SLFMLHNAFAWFYLGAFLLTVI AWFLLGNAQKMPQTTLQWGIL VFLGVVASGIGYFMWNYGATQ VDAGTLGIMNNMHVSAGLLVN LAIWHQQPHWPTFITGALVILA SLWVHPNKRFRNWLTLAIAH GGVQSAPQAFAQGFGHHQTLA LKTLYYPMR
25217	55585	A	25355	1943	2287	
25218	55586	A	25356	44	274	

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25219	55587	A	25357	876	1400	YRHVRDSPGNDRLFETWRSAG CAARLLRQSGETRLLSRVVRDY GGRWPVSLLDGLPDATWCTEK RGGFCTCATGRAGEKWAQFPE\
25220	55588	A	25358	1	1428	SLLTNLANPKAIIFYGVSFSLFV GDNVGTARWGIFALIIVETLA WFTVVASLFALPQMRRGYQRL AKWIDGFAGALFAGFGIHLISR
25221	55589	A	25359	421	797	IIFPFLFHLCNQLSHLLQYAVV NAPVRRILPIQLLWQQLIQPGEK LKSIRRAIQHIGQTQIIGMFIQMP IMIA YETDRATGDGI/WAAH*T HEYPCHVRQSQFHENHDDVQE NPPHPWKIQTPGH
25222	55590	A	25360	1	1320	
25223	55591	A	25361	1	1251	MLLSIITVAFRNLEGIVKTHASL AHLAQVEDISFEWIVVDGGSND GTREYLENLNGIFNLRVSEPD NGIYDAMNKGIAAQQKFALF LNSGDIFHQNAANFVRKLKMQ KDNVMITGDALLDFGDGHKIK RSANRAGLFLIGYGAFRIIVEFF RQPD AQFTGAWVQYISMGQILS IPMIVAGTMKQYLELMQKVLD EGTQKNDRTGTGTLSIFGHQMR FNLQDGFPLVTTKRCHLRSIHE LLWFLQGDTNIAYLHENNVTI WDEWADENGDLGPVYITTVL NQLKNDPDSRRIIVSAWNVGE/ LDKMALAPCHAFFQFYVPDGK LSCQLYQRSCDVFLGLPFNIAS YALLVHMMAQQCDLEVGFV WTGGDTHLYSNHMDQTHLQLS REPRPLPKLIKRKPESIFYRFE
25224	55592	A	25362	3	1327	



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25225	55593	A	25363	1	2443	MGLIGFVLTALWIKLIHNPTDH PRMSAEELKFISENGAVVDM HKKPGSAAASGPKLHYIKQLS NRMMLGVFFGQYFINTITWFFL TWFPIYLVQEKGMSILKVGLVA SIPALCGFAGGVLGGVFSDYLI KRGLSLTLARKLPIVLGMLLAS TIILCNYTNNTTLVVMLMALAF FGKGFALGWPVISDTAPKEIV GLCGGVFNVFGNVASIVTPLVI GYLVSELHSFNAALVFVGCSAL MTMSARSATGHECVFWCNGKP RRLAMRLIYWCAAAPTGDVVQ KLTGKWALIANSHRAGQPTRN VNEEVGQRLLEEMEWYDNYL NMGKTDRSANPSPGNKKGGLA NVVEKALGSIKSGKSAIVEVL SPGQRPTKRGLIYAATPASDFV CGTQQVASGITVQVFTTGRGTP YGLMAVP/SH*NGNWKITASVT SIQPNTNELPNCCMNGVSTANT TSKSSLVICALR

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25226	55594	A	25364	1	2701	TFFLPAGEILPPRLEPQITLPVGS RRIISIAVTDLPEPESPHLRSGLG WASLCCFMVICKFFPAAEGLIL AAVCDSRGSRYWCNGNRRYG YASDLLVRCGATVMFSEVTEV RDAIHLLTPRAVNEEVGKRLLLE EMEWYDNYLNMGKTDRSANP SPGNKKGGLGKRSSKALWLP LLQIQARKQVGLRVYTVACVL RTGTWYDRNGPDWRVPGQLN MGNPAPETGRYRLAHPATPHD PRTTPDHPSHIKPHAPTNQQPDT LTPTHHHHTDTRDPSPPPPRTRT PRQSTHTTTPHPTTTTRHTDIHP PHTNPPPPTRVLTRQLHHTNRI IPHRTHTTTCRRNHHNQMNNTT PPPPHTPQITHRHHNTTLREQTQ KHRQHIHGTQHHTTRKPPTPTT RQYNTSIVGTIGGG\MVERKVIE ESLQALQERKPRLFHGRMARN GADAVGSDCGGAMS VFISVHG MRPRLVLIGAGHVNRAIAQSAA LLGFDIAVADIYRESLNPELFPP STLLHAESFGAAVEALDIRPD NFVLIATNNQDREALDKLIEQPI AWLGLLASRRKVQLFLRLRE KGVAEEHIALRHAPVGYNIGAE TPQEIAIRVLAELQVKNNAPGG LMMKPSHPSGHQMVVIRGAGD IASGVALRLYHAGFNVIMLEVE KPTVIRCTVAFAQAVFDGEMT VEGVTARLATSSAEAMKLTER

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25227	55595	A	25365	1	1262	MGNWHLSPCPAPAPGHSCFLF VGTSPRILAVPGHTGSKAINKA ALLLESYMSQALKNLLTLLNLE KIEEGLFRGQSEDLGLRQVFAG QVGG\QPLYAAKEPVPEERLVH SFHSYFLRPGDSKKPIIYDVETL RDVAPVLDVAGATPPTIRHQRV TALVAPKNGSRDVRSCAGKMP TDGSIRAVLLPFQVSTIGGVTYE RVGTKDQGPQCPCPHVQRSSAVR PGPEAAPGDNSYPPEYEDRSTCG MQAPDASYSANPDLSTWSPCL SEDALHTSPLYCTTPTSGGEAF KGLASDLVPHEDKMVLQNGKC FTSPRHTEWAVLRAGHALARG RNLLDLAAGGMAWVSMSECE PGPGTICSRDLQGTECLRMIL PPKDPVTRGSTHCNAGTKRELE EFSSQVTLTALIQLMQVSAQF RAADGAP
25228	55596	A	25366	2	176	
25229	55597	A	25367	1	1395	MRESLELPRDLLNCCDQANAS DMDMKSRRLRGYQMEIMNLLG AGVKDFELESDDLVLVEEISK QQSIHDVAWLLLVAFVYICEQR NDLKSELIFTREAEHKSLENLEP DHPPEELDTSARNAGALTRRRE IRDAATLLRLGLAYGPGGMSLR EVTAWAQLHDVATLSDVALLK RLRNAADWFGILAAQTLAVRA AVTGCTSGKRLRLVDGTAISAP GGGSAEWRLHMGYPHTCQFT DFELTDSRDAERLDRFAQTAE IRIADRGFGSRPECIRSLAFGEA DYIVRVHWRGLRWLTAEGMRF DMMGFLRGLDCGKNGETTVMI GNSGNKKAGAPFPARLIAVSLP PEKALISKTRLLSENRRKGRVV QAETLEAAGHVLLLTSLPEDEY SAEQVADCYRLRWQIELAFKR LKSLHLDALRAKEPELAKAWI FANLLAAFLIDDII\SHRWISPPE
25230	55598	A	25368	482	765	

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25231	55599	A	25369	1	1575	MGSVTKSRGPTDSSAFFQINRD YSFLDYILGGCQLMFTPWARLL QSTCCEQCSKKAHDQFLADLA SILPSNTTPLIVSDAGFKVPWYK SVEKLGWYWLSRVRGKVQYA DLGAENWKPISNLHDMSSSHSK TLGYKSLTISNPISGQILLYKSRS KGRKNQRSTRTHCHHPSPKIYS ASAKEPWILATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQAFRF MRLVDGTAISAPGGGSAEWRL HMGYDPHTCQFTDFELTDSRD AERLDRFAQTADIRIADRGFG SRPECIRSLAFGEADYIVRVHW RGLRWLTAEGRFDMMGFLR GLDCGKNGETVMIGNSGNKK AGAPFPARLIAVSLPPEKALISK TRLLSENRRKGRVVQAETLEA AGHVLLLTSLPEDEYSAEQVAD CYRLRWQIELAFKRLKSLHLHD ALRAKEPELAKAWIFANLLAAF LIDDI\SHRWISPPEVPDPKRRT
25232	55600	A	25370	1	1341	MAGGRKFPDGGDRITLCLGSQ PGVLAPRSPEKRRAINQRYPSK TGQLPASITDMMRTARHHLG NGISVPKGAELAHPTVLELFAI SAKPIHPEELDTSARNAGALTR RREIRDAATLLRLGLAYGPGG MSLREVTAWAQLHDVATLSDV ALLKRLRNAADWFGILAAQTL AVRAAVTGCTSGKRLRLVDGT AISAPGGGSAEWRLHMGYDPH TCQFTDFELTDSRDAERLDRFA QTADEIRIADRGFGSRPECIRSL AFGEADYIVRVHWRGLRWLTA EGMRFDMMGFLRGLDCGKNG ETVMIGNSGNKKAGAPFPARL IAVSLPPEKALISKTRLLSENRR KGRVVQAETLEAAGHVLLLTSL LPEDEYSAEQVADCYRLRWQIE LAFKRLKSLHLHDALRAKEPEL AKAWIFANLLAFLIDDI\SHR WISPPEVPDPKRRT
25233	55601	B	25371	1	1233	

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25234	55602	A	25372	1	2197	SHSRGSPGKAVDFTLVSHAAW FGLPHFSTPAFNGQAMMLIAPV AVILVAENLGHLKAVAGMTGR NMDPYMGRAFGDGLATMLS GSVGGSGVTTYAENIGVMAVT KVYSTLVFVAAAVIAMLLGFSP KFGALIHTIPAAVIGGASIVVFG LIAVAGARIWVQNRVDLSQNG CNPAYAEHHQHHPGYSDKLKTR VSFSLRIISTNLRRECRAQFRF HVDASARHGFRWLQIQGVAQP VFIIITIREVEAAMRATAFGTEVG RNSRCIRRFHQVIQFQALNALG VELAGIDSRDPRLKVLEEMKRT FHWGRQTISKHIKIWLGLMLGR AMTPLMLDATSGKLTVDGA HAGAAMGILAVTADQNSAELA YYKSGSFRIEDVLWPSAVTDDN IKRNAFAADGSVNSYSVPFSSV PLLQRQGRIKYAVTLAKYRTNS NEQQESKFAQATLQWGGPWGT TWYGGGQYAEYYRAAMFGLG FNLGDFGAISFDATQAKSTLAD QSEHKGQSYRFLYAKTLNHLG TNFQLMGYRYSTSGFYTLSDT MYKHMDGYEFNDGDDEDTPM WSRYYNLLYTKRGKLQSLISK RLLENRRKGRVVQAETLEAA GHVLLLTSLPEDEYSAEQVADC YRLRWQIELAFKRLKSLHLDA LRAKEPELAKAWIFANLLAFL IDDI\SHRWISPPERIPSARKWT
25235	55603	A	25373	1	2754	
25236	55604	A	25374	1	652	
25237	55605	A	25375	1	1800	

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25238	55606	A	25376	1	2187	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRQLKKTLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLETTYSRLL ATAERVARSPITITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQLRCLQPFCTQ DTRDRPFQAQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRREIRDAA TLLRLGLAYGPGMSLREVT WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGKRLRLVDGTAISAPGGGS AEWRLHMGYDPHTCQFTDFEL TD\SRDGER\LARFAQPPDEIRIA DGEFVWRPKCIRSLAFGEADYI VGVHWRGLRWLTAEGMRFDM MGFLRGLDCGKNGETTVMIGN SGNKKSP\GFPFRARFIAVSLPPE KALISKTRL\SENRRKGRVVQ AETLEAAGHVLLTSLPEDEYS AEQVADCYRLRWQIELAFKRL KSLHLDALRAKEPELAKAWIF ANLLAAFLIDDI\SHRWISPEV PDPKRRTNLWRTKMVIWSLQ VAIRGTVSLTAPSLCNSACCCC VSTNSATTLNDFAFARSVIDLTI
25239	55607	A	25377	2	333	RLGVWQDILSRRASCYHGMEV WDKDSFGHISFDDQSMGYSHL GHIVENSVIHYA\ARLVIGADGV DSWLRNKADIPLTFWDYQHHA LVATIRTEEPHDAVARQVFHGE AFW
25240	55608	A	25378	3	235	VAVLEQRVHEPLAANAPPQLR VS/ARLGVWQDILSRRASCYHG MEVWDKDSFGHISFDDQSMGY SHLGHIVENSVIHYA
25241	55609	A	25379	1	774	
25242	55610	A	25380	1	1076	

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25243	55611	A	25381	1138	1737	SVSTEPSVAAFSSIKLRQDPP/H DNLHHQYN*GDIAFCVFTPYFH NCLCQS*WARAFQ*RANEF*R MNCTQLARTSGSHHLIPLTLRF* QICISSGQLIQYSVVCRFIHPPEH RLTIHPLAGQGVLNLFMDAAE LIAELKRLHRQGGKDIGQYIYLR RYERSRKHSAALMLAGMQGFR DLFSGTNPAAKKLLRDIGLKLAD
25244	55612	B	25382	1	735	
25245	55613	B	25383	1	1941	
25246	55614	B	25384	847	849	
25247	55615	A	25385	1	1227	
25248	55616	A	25386	324	1533	EGFMEHQKRLFQQRGYSEDLL PKTQSQRTWKTFFNYFTLWMGS VHNVPNYVMVGFFILGLSTFS IMLAILSAFFIAAVMVLNGAAG SKYGVFPFAMILRASYGVRGAL VPGLLRGGIAALMWFLQGRGS PFYDLIQTALSSPHKVTIEQFYR EVGVFLGIALIAVVISVLNFFV SHYVFRWRTAMNEYMANWQ QLRHIKGRTAFINAIMTLIAFLP VLVTLAHPPELPIIGHIPYGLVI AAIVWSLMGTGLLAVVGKLP GLEFKNQREAAAYRKELVYGE DDATRATPPTVRELFSAVRKNY FRLYFHMYFNIAIRILYLQVDN VFGLFLLFPSIVAGTITLGLMTQ ITNVFGQVRGAFQYLINSWTTL VELMSIYKRLRSFEHELDGDKI QEVTHTLS
25249	55617	A	25387	1526	1683	
25250	55618	A	25388	2709	2918	CWCFWHRRSCCGSVRYALSAV PGCQCPET*RRRFPHSAF*RFRS SETGQTGAYVSGPDLQPERLQR LWC
25251	55619	A	25389	1	1812	
25252	55620	A	25390	134	386	RLKPSAAIRRRVSSSRISTPLNPA STTAFVGTDCALPRLRATSGLA GSPLIQNRFCRARQPRWSAPVA RHAAYARHRWNQII

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25253	55621	A	25391	181	1630	RIRQFCFYHHCVLTLAICAFIVIT LTIWVSFRVSVLVFAMADDIKV AVVGAMSGPIAQWGDMEFNG ARQAIKDINAKGGIKGDKLVGV EYDDACDPKQAVAVANKIVND GIKYVIGHLCSSSTQPASDIYED EGILMISPGATNPELTQRGYQHI MRTAGLDSSQGPTAAKYILETV KPQRIAIHDKQQYGEGLARSV QDGLKAANANGVFFDGITAGE KDFSALIARLKKENIDFVYYGG YYPEMGQMLRQARSVGLKTQF MGPEGVGNASLSNIAGDAA\EG MLAPVLITVDQPFVQAGFQPLR RLLPAHETGRRTRAYGVGRLT RQIRRQIATTFRHNAQAAESKD FQWYRCDPCQLFHLMNQRHAR QHHASNVKMAMIKVNRLFGR RSLHRYVALNMRITLGGVLHH GEVGEDQRVGTQLRRHIHGAL PTGVTVRMRKSVNRDVKFAA MLMDKTHRFLQFFLGKVKAGE
25254	55622	A	25392	2	505	
25255	55623	A	25393	1	2038	
25256	55624	A	25394	188	1771	GKQTSTSPAGWENSLRMRYT\ MSFSLIATGLLGVYLTTPGY WGILFVWALFGVTCMMNWP VLLKSVSRLGNSEQQGRLFQFF ETGRGIVDTVVAFSALAVFTWF GSGLLGFKAGIWFYSLIVIAVGI IIFVFLNDKEEAPSVEVKKEDG ASKNTSMTSVLKDKTIWLI AFN VFFVYAVYCGLTFFIPFLKNIYL LPVALVGAYGIINQYCLKMIGG PIVLEKVLPPVSVRVKG TASQ GQKIPEEFKQFFGDDL PDQPAQ PFEGLGSGVIINASKGYVLTNN HVINQAQKISIQ LNDGREFDAK LIGSDDQSDIAL LQI QNPSKLTQI AIADSDKLRVGRSGLNLEGLN FIQTDASINRGNSGGALLNLNG ENPIDQLKVVG RPHDRIDGPLK TTGTARYAYEWHEEAPNAA YG YIVGSAIAKGRLTALDTDA AQK APGVLA VITASNAGALDKGDK NTARLLGGPTIEHYHQAIALVV AETFEQARAAASLVQAHYRRN KGAYSLADEKQTVNQPPEDTP



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25257	55625	A	25395	356	849	GSACRVREIPRPASQMP/HTLPA GSRPPGSEAEPGPEAAPPARRE AHQIPRRRGHLPSSPGPRTHVA AHNIRVVTEAHADSHALLSDLG AAPFVVMsrILRVGDGEDPPHV DESIQPTTENAVVFRPVQLTSAI ETGGKEEYPYGLSAASLGRAESS AASLAGRR
25258	55626	A	25396	154	379	LVPRCLKGLDLPSEINPLSSCSLV REKDPPTTSCHTVTNPRNISPIS NPDSTGNRTVQLTW*PLPEPLE LWPKAL
25259	55627	A	25397	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQVTSPRNISPISNPHTR TSKRLNRSGQAFLLQNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL
25260	55628	A	25398	1	753	MGSWLQGLRAMVFALNYMVT RVRNKKDPPTTSGPQVTSPRNI SPISNPR/PKETRFICGPKTPAPL MDWEGSLPLMFNHCRDTSIIH PCFQGVRPCRDACLSPSPLAASP AFLGKGQVPLNPFFTLGSKSRF SGGGASTPTPSFHVSTPSLLFW GRGKYPSTPSSPLVASPAFLGK GQVPLNPFFTLGSKSRFSGEGA KAPETITDAELRVTLTVEAAVC STIALSLGWEILPRHWGKEEVT KTIYYVIP

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25261	55629	A	25399	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQTVTSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGS LVPFVNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQEEELTILNMYAPN TGAPRFIKQVLNDLQRDLSHT IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRIKKLTQNHSTTWKL NNLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEEEKQEQRSKASRE EITKIRAELEKETQKTLQKINES RSWFFEKINKIDILLARLIKKR EKNQIDAINDKGDIAIDPTEIQ TTIREYYKHLCPNKLLENLEMD KFLDITYTLPRLNQEEDESLNRP TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLLKLFQSIEKEGILPNSFSEA SIILIPKPGRDTTKKENFRPISLM NIDAKILNKILANQIQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISIDAEKA FDKIQQPSC
25262	55630	A	25400	3	267	EKDPLTTSGPQTVTSPRNISPISN LRLFAFTWTDPDTHQAQQITW AVLPQGFTDSPRYFSQAQISSLS VTYLSIILIKTHVLSLPIMSD
25263	55631	A	25401	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQTVTRPNISPISNLVS GLFLLSSPTSLTIPQLSSFNLDD TLQSLPSLNF
25264	55632	A	25402	142	441	LRLGDLPWEINPLSSCSLLCEKD PPTTSGP/PRNISPISNPVSGFL SSPTCLTIPQLSPFNLGATLQSL PSLNFNSFHFLVETKETRFIRGP KTPAP
25265	55633	A	25403	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQTVTRPNISPISNP ELATLAGNLTGPRNARSPGFL SHVLSVWDPTENQTVQLTWQPL PQPLELWPKAL

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25266	55634	A	25404	1	511	MWKGPKGGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTVTSRPNISPILNR VSEVSDHAGTPALVLHP
25267	55635	A	25405	570	1182	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTVTSRNTSPISNLH ALKGLKPAITRLLQHGLLKPIN PYNPILPVLKPKPYKLVDL CLINQIVFPIHPVVPNPYTLSSI PPSTIHYSVLDLKLAFITPLHAS SQPLSAFTWADPDTHQVQQT WAVLPQSFTDSPHYFSQAQISS LSVTYLSIILIKTHVLSLPIVSD
25268	55636	A	25406	489	615	LRNTWNSPRLMACALHSGSPSC TWGPYS*SGLSENLASQRVCP YQENNVGRVRDTEIKEHCYEES SYRAATQIQVRKVGIITEPYPFM ASLRTHCIICETCYEMKISFSKS LNPLEKNKKSQPANCAVKEVS EQLRRRQAFSVAAGLKGGKSP AQSIKKNLQKPYQHFQTLQQLL PLQWAPCYGPSNFATHGTHQG LWLVLSTVAAQAVPGALIAEA TALLAWIQGAVS
25269	55637	A	25407	579	715	LGSGDLPWEISPLSCSLLHEKD PPMTSGPQTVTSRPNISPISNLR
25270	55638	A	25408	1553	1896	
25271	55639	A	25409	964	1332	SCRFIRIYQGACCNLHPGEINSH VAHTKPVWWSLHTDTHENCHL NTAVFFYHWALEFFLNPLRR/ CSC*HSLPGQFPVSLCLRVLSVD CAHPWGKPEAPGS*HPGPWQFS SLPSPLWPLYQHP
25272	55640	B	25410	1	717	
25273	55641	A	25411	590	1142	PNSSWMRGEPKKDPPTTSGPQT VTSRPNISPISNPR/PKETRFICGP KTPAPLMDWEGSLPLMFNHCR DTSIIHPCFQGVRPCRDACLSP SPLAASPAFLGKGQVPLNPFFTL SGKSRFSGGGASTPTPSFHVSTP SLLFWGRGKYPSTPSSPLVASP AFLGKGQVPLNPFFTLSGKSRF SGEGA

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25274	55642	A	25412	1	790	MGLVHLQRQSYWTVQRSSINH FLGCPNHTGKDKTLYMRWTKS FRKVEDPPTSGPQTDQPKKHL TKFKSETKETRFIHGPKTPAPV MDWEGSLPLVFNHCRDASLIH SHFKGVRPRRDACLGPSPLAAS PAFLGKGQVPQPLISLCPDPLFP HPNLISLRPNPLCPHPDLVSLCP DPFPAFLEAHKNFQTPEPQQPGI PPEPPPPGACYKC/HEI*PPGQG MPAAQDSS*AMS/LSVRDPTGN QTVQLTWQPLPELELWPKAL
25275	55643	A	25413	1	736	MQAMEKWKREAKVETEKDQK NQYQQTWLSDSASGYRYTKLP FYFRHNNLIPALAHLLFLDSLYS DLLTAFFMQFWLSAQMSSDQ RGLPGYLLWAEISLLEISELTS GKQDSSWPEVKAGLKKEANYL SSDSARLHPGEINSLVAHTKPV WWSLHMDTHEIWCSDSNWGD LPWEINPLSSCSLLHEKDPPTS GPQTVTSRPNILPISNPPSSKHQE KPPEAISTLPNAAATAAAVGS LLWSL
25276	55644	A	25414	1644	2010	LGSGDLPWEINPSSSCSLREKD PPTSGPQTVTSRPNISPISNPHTR TSKRLNRSGQAFLLQNLQPQLA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPELELWPKAL
25277	55645	A	25415	1	1035	MGKEYSLDVKKSIKVFKNRS QGNRLQKLGLEDTDREDAMGF GSHRAKLTVAALGACHCPEN EGQTVLPSSSTGRSDKRERSA GYTPFFVKEGVPSPLFKLHVV RCCSIQSHHSRRSQNCAEDVIR KTKTDQAVSSMSSAPVTVQQL NIIPALLVALTCGWAFCLMVSQ EQYDEASKQAASFSNNAVIPVY MSHMSKTLYKSEVPINTYAQK ICFIAHTKPVWWSLHMDAHEI WCRGRRSTDLPWEINPLSSCSL LREKDPMTSGPQTVTSRPNISPI LNQELATRAGNLATRPRNACSL GFLLSRISSVWDPT*KFGLVQLT LGKPLPELELWPKAL
25278	55646	A	25416	174	393	LRSGDLPWEINPLSSCSLLHEKD PPTSGPQTVTSRPNISPISNPGET KETRFIRGPKTPAPVMDLGRQP SLGV

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25279	55647	A	25417	2	4574	WDVLGAVIGTECGTIESGLSMV FLKDGERKLCTPSMDTTGYGN LRFYFVMAKWIYIPENVVKGR KEIILVLDFTWCMVHRGICDPG NSHENDIILYAKIEGRKEHITLD TLSYSS/L/SSLYWPVMSQILFW QRTVH*TWLQL*DGIPDIPNVY F*KLWQFQALLP*LLLYPWC* SQLWLWCLGQW*GPGFQQRW AASANYIFP*QLTIQNNLRRTTR *CKAVWNSVQMVA TVSFFPER RCMGY**DYHDICA
25280	55648	A	25418	1	363	
25281	55649	A	25419	1	301	
25282	55650	A	25420	2	309	
25283	55651	A	25421	3	512	YIGPSCLKFCSGRGQCTRHGCN CEMASQTFPMFISESFGSSRLSS YHNFYSIRGAEVSFSGCVLASG KALVFNKDGRRLITSFLDSSQ SRIISVELPGDAKQFGIQFRWW QPYHSSQREDVWAIDEIIMTSV LFNSISLDFTNLVEVTQSLGFYL GNVQPYCGHDWTL
25284	55652	A	25422	2	878	
25285	55653	A	25423	1	750	
25286	55654	A	25424	1	1404	

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25287	55655	A	25425	1	2506	GCSRLLVTVDLNLTAEFIQFY FMYGCLITPNNRNQGVLEYSV NGGITWNLLMEIFYDQYSKPGF VNILLPPDAKEIATFRWWQPR HDGLDQNDWAIDNVLSGSAD QRTVMLDTFSSAPVPQHERSPA DAGPVGRIAFDMFMEDKTSVN EHWLFHDDCTVERFCDSPDGV MLCGSHDGREVYA VTHDLTPT EGWIMQFKISVGCKVSEKIAQN QIHVQYSTDFGVSWNYLVPQC LPADPKCSGSVSQPSVFFPTKG WKRTITYPLPESLVGNPVRFRFY QKYSMDQW AIDNFYLGPGCLD NCRGHGDCLREQCICDPGYSGP NCYLTHTLKTLKERFDSEEIKP DLWMSLEGGSTCTECGILAEDT ALYFGGSTVRQAVTQDLDLRG AKHDYILLPEDALTNTTRLRW WQPFVISNGIVVSGVERAQA LDNILIGGA E INPSQLVDTFDDE GTSHEENWSFY PNAV RTAGFC GNPSFHL YWPNKKKDKTHNAL SSRELIIQPGYMMQFKPFGFCRS DSWQLVQTQCLPSSSNSIGCSPF QFHEATIYNSVNSSSWKRITIQ PDHVSSSATQFRWIQKGEETEK QSWAIDHVIYIGEACPKLCSGH GYCTTGAICICDESFQGD DCSV FSHDLPSYIKDNFESARVTEAN WETIQGGVIGSGCQLARYAH GDSL YFN GCQIKRAATKPL\DL
25288	55656	A	25426	146	10561	GGGGGGGGGMERSGWARQT FLLALLGATLRARAAAGYYP RFSPFFFLCTHHGELEGDEQG EVLISLHIAGNPTYYPGQEYH VTISTSTFFDGLLV TGLYTSTSV QASQSIGGSSAFGFGIMSDHQF GNQFMCSVVASHVSHLPTTNLS FIWIAPPAGTGCVNFMATATHR GQVIFKDALAQQLCEQGAPTD VTVHPLAEIHSDSILRDDFDS YHQLQLNPNIWVECNCNCTGE QCGAIMHGNAVTFCEP
25289	55657	A	25427	1	296	

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25290	55658	A	25428	1	557	MARSLGVLVALPFPLPVGFNAE EAHNIVKEFSPGKSHPRESLSQQ RETLVQAGAFHWFGWRGKEK LKPKFNTFGRLPNEMLEQWLS TNQCV DGV/LKGGEDYNHNNI NQWTASIVEQSL\THLVKLGKA YKYIVTCAVVQKSAYGFHTASS CFWDTTSDGTCTVRL/WENRT MNCIVNVFCHCLFVL
25291	55659	A	25429	178	2270	VRRLFCVQTGGSPVGRGSLHHL WLVFHVLSLLCSPCLLAPGM WGFHDRDLVLRKALYTM MRT GAEREALKRRWRWQQTQQNK ESGLVYTEEEWEREWTELLKL ASSEPRTHFSKNGGTGGGHLPP EGKPLHGCSSLLRSGKGGHVK AEPSRLQQSQAKPPLTSQIRALH FPIPSQINEKPGAGHWSAKLHFP YWQLGEAGEEEGSSPPDIMRCL LTCLSV PSTAVIPLTDSEHKLLP LHFAVDPGKDWEWGKDDNDN ARLAHLILSLEAKLNL LHSYMN VTWIRIPSETRAPLAQPESPTAS AGEDVQSLADSLDSRDSVCS NSNSNNGKNGKDKEKEKQRKE KDKTRADSVANKLGSFSKTLGI KLKKNMGGLGGLVHGKM GRA NSANGKNGDSAERGKEKKAKS RKGSKEESGASASTSPSEKTTPS PTDKAAGASPAEKG GGPGRGDA WKYSTDVKLSLNLRAAMQGE RKFIFAGLLLTSRHRHFHEEMIG YYLTSAQERFSAEQEQRRRDA ATAAAAAA\PPPPRP/ERPPRRP ETEGVPVPERASPGPPTQLVLK LKERPSGPAAGRAAAAAGG TA/CPGGRRACERQRTSAWPQ PPGASAPERHPRAGVGRAGRG VRAGRGGAAA VRHVPAAEPLA VVAELQPGARRRPAHRQHGRV AGARGARGPTGRGGDRGGGRA

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25292	55660	A	25430	404	1116	SLGPLMLSGQKLQTSYTMEEY AAIKR/DKIVSLVGTWLELEAIL KKLMQEQKTKYHMFLLDSLH GMQQAERVLIADGTMLLSAQY QFENNLLVPILRVSRKSLQRKE EPGRKAKKSQTSGEIGIKRRFW FEWKEPVALSSQGWYEAKGSE RPEKGLLGLLRAESFQDLRTAL ISKPYFSVPGKVGPAPKCPETLP ELKTYPQYGVTLGEPVRNEQQ QASSFPSLSNTHLSKKRNES
25293	55661	A	25432	1571	1782	WLLCRLPPRVPDQL*WCGCQPE KCAGAEFQDGSAMPLPSRTCPL SPRMCTGWSTTCATTDSATTA CPLAL
25294	55662	B	25433	69	1160	
25295	55663	A	25434	14	437	LQTSHPYPTTSKC/PPP/CEKPSP TSL/C*RRSAPHLQPPE
25296	55664	A	25435	782	997	MMLCQLQRPV/CGSHSCSRG/C PPAQ/CPSPVPVPSPQSAFPVPS PSSTCPNPSPHPIHPMVPSWSG HWDSK
25297	55665	A	25436	1117	1815	GDAHTEQCLQNL YPRGSRPPLP LESHPSSSKHSPKACPTGRS/CG PWK/CPGPEVRP*PPPSCTR*DP HFRGLLEGLLEPRHVTCLALCG PQRVLYWPVYHERLGEGWDW CPSSWPGA



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25298	55666	A	25437	1261	2757	ALGKDEKSQGPPIQTGGLGPRL FRLPSSQGQERRFAAAKAPSSL VPHNGSPLSCWRGLREEGGLSL ATLWTPCGVGSGVPAAPPSAW CDLGKLLVCWRGQNRGPRSTQ TDVRRHEARSRQRRRKCVAA VAPRSRRWRCPAALAAPAVAV PVVFALIFLLGTVGNGLVLA LQPGPSAWQEPGSTTDLFILNL AVADLCFILCCVPFQATITYTLD AWLFGALVCKAVHLLIYLTMY ASSFTLAASVDRCAVPGHPL GRAVGAGVGGGVNLVGLVWL LAALFSAPYLSYYGTVRYGALE LCVPAWEDARRRALDVATFAA GYLLPVAVVSLAYGRTLRFW AAVGPAGAAAAEARRRATGRA GRAMLAVAALYALCWGPHHA LILCFWYGRFAFSPATYACRLA SHCLAYANSCLNPLVYALASR HFRARFRRLWPCGRRRRHRAR RALRRVRPASSGPPGCPGDARP SGRLLAGGGQGPEPREGPVHG GEAARGPE
25299	55667	A	25438	1	1624	MKDKSKTLGLEASIFRNNWKC KSIFGLKGHQEGYFSQMIISYE KIPSYRKSKSLTPHQRIHNTKS YVCKECKKACSHGSKLVQHER THTAEKHFCECKCGKNYLSAY QLNVHQRFHTGEKPYECKECKG KTFSWGSSLVKHERIHTGEKPY ECKECKGAFSRGYHLTQHQQIH TGVKSYKCKECKGAFFWGSSL AKHEIHTGEKPYKCKECKGAF SRGYQLTQHQQIHTGKKPYEC KICGKAFCWGYQLTRHQIFHTG EKPYECKECKGAFNCGSSLIQH ERIHTGEKPYECKECKGAFSRG YHLSQHQQIHTGEKPFCECKCG KAFSWGSSLVKHERVHTGEKS HECKECKGTFCSGYQLTRHQV FHTGEKPYECKECKGAFNCGSS LVQHERIHTGEKPYECKECKG GFSGGYHLTQHQQIHTGEKPF KCKECKGAFSWGSSLVKHERV HTNEKSYECKDCGKAFGSGYQ LSVHQRFHTGEKLYQRKEFGK TFTHGSKLVHERTHSNDKPYK YNECGEAFWTTYSNEKIDTDE

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25300	55668	A	25439	32	447	VLGGSMFMFREGQRGNRQKGP KKRRNLALSSALLASTA/PAGG QPRHWRPG*CCLRQQL*PLQGN WAPVSPLQGHRSQLRAGYSISS FLQMFAP*VQGAARAQPAPGA AVPRGSGRQGGPRAVDLHGFR VGWNRLRAASM
25301	55669	A	25440	1	858	
25302	55670	A	25441	147	1088	SRTTYKGKSSFQTYSDYLRWES FLQQQLQALPEGSVLRGRFQTC EHWKQIFMEIVGVQSALCGLVL SLICVA AVAVFTTHILLLPVL LSILGIVCLVVTIMYWSGWEMG AVEAISLSILVGSSVDYCVHLVE GYLLAGENLPPHQAEDARTQR QWRTLEAVRHVGVAIVSSALT TVIATVPLFFCIIAPFAKFGKIVA LNTGVSILYTLTVSTALLGIMAP SSFTRTRTS/CPQGGPCRAAGRG PGAGCLPRAPAERL*DSPARRG LPIARDGLWTLAPLPVWVGDR SCFPARLQLAVSPGLGPGRPAG
25303	55671	A	25442	1	1596	MGVSVRVDCG CARASEFLGRP RGAVRGADPGSGLTETCAQSR TWARARSKGGFRLTLNFYGPR YPSEGTSRGQRSEALPFLDIQHP TPLGRPRMLQSRGEMVRSWGP VVEGKLGFCPLTVFPGGLRGP HPGLAGERENFARGAKQEACL LQPGDAGLTHPCPATGYFPEA SCTSR SIRMFIN SQERQLADMSL FIADSWLCYSGIICWKSLEHQR GASLSCVYMEGKGGNIWMKAS NVLPLCQMLPTSGHSKSDLFGG LAVEKQMRQDHHILLHDRSGF QLAVTSPLLTRLGKGHIIQVPV YVLDAPSRWLGGRLFRDSSCG LVLSLICVA AVAVFTTHILLLL PVLLSILGIVCLVVTIMYWSGW EMGAVEAISLSILVGSSVDYCV HLVEGYLLAGENLPPHQAEDA RTQRQWRTLEAVRHVGVAIVS SALT TVIATVPLFFCIIAPFAKFG KIVALNTGVSILYTLTVSTALLG IMAPSSFTRTRTS/CPQGGPCRA AGRGPGAGCLPRAPAERL*DSP

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25304	55672	A	25443	1	2355	MDHPGFREFCWWKPHEVLKDLP LGSYSYCSPSSLMTYFFPTERG GKIYYDGMGQDLADIRGSLEL AMTHPEFYWYVDEGLSADNLK SSLLRSEILFGAPLPNYYSVDDR WEEQRAKFQSFVVITYVAMLAK QSTSKVQVLYGGTDLFDYEV RTFNNDMLLAFISSSCIAALVYI LTSCSVFLSFFGIASIGLSCLVAL FLYHVVFGIQYLGLNGVAAFV IVGIGVDDVFVFINTYRQATHL EDPQLRMIHTVQTAGKATFFTS LTAAAYAAANVFSQIPAVHDFG LFMSLIVSCCWLAVLVTMPAA LGLWSLYLAPLESSCQTSCHQN CSRKTSLHFPDVFVAAPEQVGG SPAQGPIPYLDDDIPLLEVEEEP VSLELGDVSLVSVSPEGLQPAS NTGSRGHLIVQLQELLHHWVL WSAVKSRWVIVGLFVSILISLV FASRLR\SASRAPLLFRPDTNIQ VLLDLKYNLSAEGISCITCSGLF QEKPHSLQNNIRTSLEKKRRGS GVPWASRPEATLQDFPGTVYIS KVKSQGHPAVYRLSLNASLPAP WQAVSPGDGEVPSFQVYRAPF GNFTKKLTACMSTVGLLQAAS PSRKWMLTTLACDAKRGWKF DFSFYVATKEQQHTRKLYFAQS HKPPFHGRVCMAPPGCLLSSSP DGPTKGFFFVPSEKVPKARLSA TFGFNPCVNTGCGKPAVRPLVD

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25305	55673	A	25444	1	1737	MLYAAECLRNVMKLQVIPSAL NEALQAQSTWSDLGLASHALS STWCLHGESAAWSQPAVVECG QPRDQLQTHSEAWLCALVATF SQELEQFAVTGAQISDRQGHAV CTAPPRGRPSTLMTNLVCASSA DECGGGKTETQTAGGRLQGAE TRSRGQLTRLITRTQAAEPRWF LQLLKRSANRSRALTRPFSGLSS DGARRLRISFVSAVSSADTKPT VPVSSDSSGRDGCGETRAEAGP GGPHVAQPQRVAPPAARDF RKPRGLNRQNVSP/PGPGEQGP G/PRPQKPAGRAP\PEPQGEPL GLFPR\GRPPRSFPGSPADPAAS VSHTQGSPDGTGLPGTCQNRLP NPAAVDEQTCTRGSLNCRLSRS PRVSERRGPEGTPGRRPAAPPQ CAGTRGLSPRADLGAAIRTPRA PYRPHGQGRPSRHNCDSVSSQG WPPHSCWWKTTSNGMPWKAS FCSRTAQPANQNTGNHERGLRS VAMFGDRASREATPALSLCESQ GCFEDEKEVFSPEPHVETSDEPL PICSGPGDGWGDPIARPGRGNN LSPGTSaweVPRWIRVTGEDW LSTGPAECVFINDLTT

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25306	55674	A	25445	2	1642	LLSSISAWFGPPASTPAFTMSIR VTQKSYKVS\TSCPRAFSTRSYT SRPGSRISSSSFSRVGSSNFRGDL GGGYGGASG\MGGITAVTVNQ SLLSPLVPEVDPNIQAVRTQEKE QIKTLNNKFASF\DEVGFLEQQ NKMLGTKWSLLDQQKTA\RSN MDNMFESYINNLRQLETLGQ EKLKLEAELGNMQPLVEDFKN KYEDEINKRTEMENEFVLIKKD ADEASMNKVELGSRLEGLTDEI NFLMQLYEEIRELQSQISDTSV VLSMDKSRSLDMDSIIAEFKAQ YEDIANRSRAEAESMFQIMYEE LQSLAGKHGDDLRRTKTEISEM NRNISR\LQAEIEGLKGQR\ASL GGRPLQDAE\QRGKSWPIK\DA NAK\LSEAGSPPLQAGPKQDMG R\QLREY\QKLMNVKAGPWTEI\ IATYQESCLEGEETPGWSLGCQ NMS\HT\KTTQRGYAGRPEPPP MGGFTSP\GFSYKPGAPGFGSG AGS\SSFNRHQLSPGAVVVKKIE TRDGKLVSES\SNVLPKVKQLR QPLPSLPLLRCPRGLGKEAPYP
25307	55675	A	25446	1	1280	MAYLCNAICMTHMVTLDVPDQ ALPGATTATSVPGPQCDASCM MLFAVVPFNGIALAATQGAQS MLPPRVQGSLSKPSTRRGRDA PGLQVSQAPPPRRGFAVGRRYS PPALAPGRCAAPHGGGRKELPT RRPGHGMAPKFPDSVEELRAA\ GSEFRNGQYAEASALYGRAL RVLQAQGSSEPEESVLYSNRA ACHLKDGNCRDCITDCTSALAL GPFSIKPLRRASAYEAELEKYP MAYVDYKTVLQIDDNVTSAVE GINRGPKLKEDTTQKRWNLSLPS ENHKEMAKSKSKETTATKNRV PSAGDVEKARVLKEEGNELVK KGNHKKAIKEYSESLCSNLES ATYSNRALCYLVLKQYTEAVK DCTEALKLDGKNVKAIFYRRAQ AHKALKDYKSSFADISNLLQIEP RNGPAQKLREQEVKQNLH

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25308	55676	A	25447	1	1297	MHLLSAYFVPGSMLVGSGYM MVNITDVSPPSWSFLCSMLITTT QGAQSM LPPRVQGSLSKPTR RGRDAPGLQVSQAPPPRRGFAV GRRYSPPALAPGRCAAPHGGG RKELPTRRPGHGMAPKFPDSVE ELRAAGNESFRNGQYAEASAL YGCALRVLQAQGSSDPEEESVL YSNRAACHLKDGNCRDCIKDC TSALALVPFSIKPLRRASAYEA LEKYPMA YVDYKTVLQIDNV TSAVEGINRMTRALMDSLIGPE W/RALKLPSPFLVPVSAQKRWN FLPSENHKEMAKSKSKETTATK NRVPSAGDVEKARVLKEEGNE LVKKGNHKIAIEKYSESLCSN LESATYSNRALCYLVLKQYTEA VKDCTEALKLDGKNVKA FYRR AQAHKALKDYKSSFADISNLL QIEPR\NGPAQEVAGREVKQNL
25309	55677	A	25448	3	491	GITFTHSPAATGGGAQRVRRRD PPPGVQLRNMAQETNHSQVPM LCSTGCGFYGNPRTNGMCSVC YKEHLQRQNSSNGRISPPATSV SSLSESLPVQCTDGSVPEAQSAL DSTSSMQSPVSNQSLLESV\ ASSQLGQYICGTKA VPETEDVQ ASVSDTAHV
25310	55678	A	25449	1	860	HLLLLAIDYNLPIAGVLMESQY LGASPKRLVIPNLYAHRKSLAT LEPYAPRRPMPPIARRYAIPYMS HHNGYIGDVYYRLTVEKKSSF IARRSILTTEFTIRRTKKVPVPSI NMSSASPLEDESRPSAGVQLRK GRYRLLRDRYRPGCNSVGESPR KSSFSDDIMATESRESIFAEPR TGEHSVRGPVSNQSLLESVAS SQLDSTSVDKAVPETEDVQDSL NASPTKQQCG/DVQTVDLYSNN KELFAQKCYRHRYISRLKKCCL CHELVPRDTIKSPESLSVGS
25311	55679	A	25450	880	1196	SPTTRRGTPGTCLKPTACAGAA *PGCSARRTCASAAPLSTCPPSS CAAPPAPAAVPSTPRPTSPSPW AAPASPSRRRTQTASTPASTNR APSSCWAPTTRPLAP
25312	55680	A	25451	254	579	IEKISLEPKNRPSQPINLVGP/R LFLVPGDFQSQVPNLFKPPSSG PHPAAGKGQPFSLPAWRSTGP ERATPGPGRPAACSALEAPSLR GPSGYSAQEP RRPISARI

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25313	55681	A	25452	6	1442	RSELIRHSWPRHAQLRGARART AVSIRECISVHVGQAGVQIGNA CWELFCLEHGIQADGTFDAQAS KINDDDSFTTFFSETGNKGHP RAAMIDLEPTVVDEVRAAGTYR QLFHPEQLITGKEDAANNYAPG PPTPGGKESIDLVLDRIRKLT ACSGLQGFILFHSFGGGTGSFT SLLMERLSLDYGKSKLEFAIY PAPQVSTAVVEPYNSILTTHTL EHSDCAFMDNEAIYDICRRNL DIERPTYTNLNLISQIVSSITAS LRFDGALNVDLTFQTNLVPYP RIHFPLVTYAPIISAEKAYHEQL SVAEITSSCFEPNSQMVKCDPR HGKYMA\CCMLYRGDVVPKD VNVAAIAIKTKRTIQFVDWCPT GF\KVGINYQPPTVVPGGDLAP VQRAVCMLSNTTAIAEAWARL\ DHKFDLMYAKRAFVHWYVGR GDWKKGEFSEAREDLAALEKD YEEVGVDSVEAEAEEGEEY
25314	55682	A	25453	3	618	SSAGREPDPDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEQRQWYKVNPPDKKP TQGNLPPQIFNGDRYCGLLVS FSVICIKNPWNHNLFLIPWSGI NPYCEQDSSFSENVGDEILKNS GVPRDFTSILIKERKSEKVKG VDQGHR
25315	55683	A	25454	3	424	SWTMAATIQAMERKIESQAAH LLSLEGQTGMA*S*GTPCCPG AAAGSRSSCAAGSPRSPAASA AARTPAAGSPARPTCPPAGSRT PRLSSRNQPASSRPSRFDLLGKA GEQPAIQSSSPWPESWLPSTK
25316	55684	A	25456	268	445	
25317	55685	A	25457	3	205	
25318	55686	A	25458	27	272	AKCSGQGPGRVRAQGERADHE CPGAGAGGGGCNSAASAREES SRLISG\SLQM\QNVSLARRKEE EVRAAAAGGAAAGRPRV
25319	55687	A	25459	1	253	
25320	55688	A	25460	2145	2399	

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25321	55689	A	25461	174	1309	HLLCCRAQRRPQTTPPAARGLEA CSEGALKMPEAPP\LLLA AVL GLVLLV\LLLLLRHWGWLCL IGWNEFILQPIHNLLMGDTKEQ R\LNHVLAACGSPGNAQSVLG GH\TPNCEQKEW/AP\NVGDK KGQDSWDALISREQPALPCLLG NLGAYFGLLQLLRMAR\LLVNQ GARLIHHSRFPDLCPPSPKRM\ VDFAGVKDKALFQVTL\VC GAS PETFHPPSLKKKYDVGHNWTW VFLDHWKDRYL\PD\TLLLE\EC G\LLPEGGQLLAEQRLSSPGAP \DFL\AHVSREPACFG\CTHYQI VPWKYRE\VVDGLGRRPI\YKG PGSEAGALTAPRPPSRALSPK PGTEGARPWLLTLVRLRACVL NAKSHARAESLRA
25322	55690	A	25462	2470	3460	SGPCPRCCAECRPYKTRPRSRV PGTHGPGPADHGQPPCCMAGA HPPRPQAWMLLQTHSQDCEGK VGCGGIFCPCYHHCKHTHHHH HHPHHHHYHYHHHNHHQH HHHHHHYHHYHSHYHHYHH HLHHH\HHHHHPYPHHYHH RGQDHHPHHHHH\HHHYHH HYHHHYHPHHHPHHHHQPQH HHHQHYHHHYHHHPHHPHH PHHHHHYHYHHHHHHHY\HPY PHHYHHHHHHHHHPHHHHH/ HHHYHHHPHHNHYHHHHHPH HHHRPHHHHRHQHPHYHHH HPHPCHHHRLHHHRHHHYHH TSSVQGPQSQPAGASLPGQACR
25323	55691	A	25463	1	407	DAERQEALGIVRRIGTDTEAAT EPAGATVPAAAAAARIGTVGP QPPAMP RRKR NAGSSSDGTEDS DFSTDLEHTDSSES DGTSRRSA RVTRSSARLSQSSSRISRSCSKS GSL LALRSLTLPEE*PVVSSSL



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25324	55692	A	25464	3	2539	RILYIPDGHRAPGASQSGNWEH PLLLLEPGNLASSPSMSLAYPHP CGLTIHQEHRAHEELAYTPND RASSTGHPAFIEDGNPSVLFAFA ASPRPNDSYILKREPPESCEKER VFEEATTRGKYGEGAKQETFTF ALTLVFIQCVINAVFAKILIQFF DTARVDRTRSWLYAACSISYLG AMVSSNSALQFVNYPTQVLGK SCKPIPVMLLGVTLLKKKYPLA KYLCVLLIVAGVALFMYKPKK VVGIEHTVGYGELLLLLSLTL DGLTGVSQDHMRAHYQTGSN HMMLNINLWSTLLLGMAVSCP DQGPVLVPRCPFVQALEKPSWK NLHQQDLFATCYWHNEGESCV SCHGKTLSSKTQGILFTGELW EFLSFAERYPAIYNILLFGLTSA LGQSFIFMTVVYFGPLTCSIITTT RKFFTILASVILFANPISPMQWV GTVLVFLGSTQIILDNLKILNTS AKTLLYKTPLSWQELEGERRASS CAHKRSASWGSTDHRKEISKLK QQLQRTKLSRSGKEKERGSPLL GDH/VSAGSTEGVPS/RASPQGP LSCDSAPACT/VSLEGLNQELEE VFVKEQGEEELLRLDIPDHR APAPPQSGSCDHPLLLLEPGNL ASSPSMSLASPQPCGLASHEEH RGAAEELASTPNDKASSPGHPA FLEDGSPSPVLFAAASPRPNHSY IFKREPPEGCEKVRVFEEATHQ
25325	55693	A	25465	845	1316	LSLGDSAQCLLPASWCQVAG HPAFLEDGSPSPVLFAAASPRPN HSYIFKREPPEGCEKVRVFEEAT S/RRVLTGPFLTSCPDK\NKVHF QP/TGSAFCPVNLMKPLFPGMG FIFRNCPSNPGISSPGQPQATTS EGSGSLQGLPTAIRAMAAHPYH Q

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25326	55694	A	25466	1077	1506	CDACGRRRCRTCTFCLGLQPAG LDGHHHRHPDCWFPWSPRHR* GMIDVFSRYSGSEGSTQTLTKG ELKVLMEKELPGFLQILTNEDE PLVTIPFLSHSCSLAYLLTTSN RVNALLKWLLKLGERWQMTE EGIKGQRSGHGPEQAENPLGDS VPQDTTKDVPLTQHRHLHGLE AGVPKTSVPARPGLPVPALQHA QIPGPCERALLHCHNGPQRLQH SLQGEEQRETHLRGQDWPCCTL QMRTLKREVHALPGGRAGGAA REGLGASICETGEHQMTNFQVP RWPPCFPGQAGPVLGTGTRHG LDLLSGRPGTVRKGSVARIMK EEVTVTKQSAADLRHTGQGPT CCVLSGGRCGSQACSRPFSL LGDESEPHGRGPFAAALHHR NPLNDVMLVGDDAGPAGHFAS VYNPLAWTVTTIVTLTVGFPV RVTDEAGHPVPSQVSGIQRCLQ GMKAPPVTVTVSGEKGSCLCA SCVLCLEHPYFPLVPWLPPVFR DSVIPSSSTSPQEA VLADVGFRN NVPQRAQLKPQKQILTPF
25327	55695	B	25467	31	783	
25328	55696	A	25468	846	1392	PDPAHRFGHPTLHPGSLRTSS GAGTWYQNPQHNDHDYHH HHHHDDHHYHHHHHHHHHH HHYHHHHHHHHHHHHHHHH HHHQHHHHHHHHHHHHHHHH HHHHHHHHHHHHHDQH HHHHHHHHHHHH/HF/HHHDH HHHHHHHDHHHHHHHHHHHH HHHHHHHHHHHHHDHHHHHH YP
25329	55697	A	25469	181	412	LRSDQQTRKFVSRSSGACSPPTT TELSWPPSLPSL*FHSPSSQP* MNHSASTTSPLPSFITERESILAT EWD TARN

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25330	55698	A	25470	1	848	MPSLNTIVSPLGSPHTSLIPPM LSANLPFDTTIMIKLQTACSAPI HNLQRPCGENLRTSTFVRLDR NLVKSPQPGGGGQPSRQWEAR GAEPQGRDPSEVQ/RPAGRGF GRISRAPRKPSRAPPTQGLGPP LGAGGQGSLASCRPARKNARPP TRAAAHSAHPHSHWHSHARPQ PQSPSAAGQSGDPWPPARVPPP PLLRLPQRRTAGRTPVDAPARG IFTLSLSSSHSKSSGKHARGARKT PEMWPLFRGSLSKLSRRRKVSP SAALHWRLRRTQKRLCC
25331	55699	A	25471	92	1083	TMRTHGHRKGNITPWGLSGVG GL/ETGRALGEIPNVDEGLMGVI AAVAIVLVSLLFVMLRYMYRH KGTYHTNEAKGTEFAESADAA LQQRERALDSSRDSHLETGAC PGRNGGGLALQEATPRDPGRR WPPQRPFPAPRRWEKIWAHGPL GSAGQHQLTGRKVLVEGLGCI CMAHTDLQNTSVAKMAINRPN EYAQVSLENDVSCVKAVQAP QRLHWPSVDADTGGRGAVHIA FPKHVEPETPFAHTIPARNSWT KWSSEHILETLSPQKPALPWAP RQQGRPLGLTAPISKRLGPGDG PEGEAGERLAQAHFINTRPPST GPPGTPAAD
25332	55700	A	25472	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTIAEPDPG MSGWPDGRMETSSPTIMDIVVI *CAIAAEAIVLVSLLFVMLRYM YRHMGTYHTNEAKGTGVADS ADACPAGDPA
25333	55701	A	25473	139	546	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHNYHHCRSLIPG MSGWPDGRMETSTPTIMDIVVI AGVIAAV\AIVLVSLLFVMMVAL TCNRA/HRGTYHTNEAKG\TEF AESADAA\QG\DPAL\QDAGDS SRK\EYFI
25334	55702	C	25474	142	408	

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25335	55703	A	25475	44	727	ARAGSRSRGLPFCGTAGPPPKA TLWGGLLRLGSLLSCLALSV LLLAQLSDAANNFEDVRCKCIC PPYKENSNGHIYNKNISQKDCDC LHVVDPMVPVGA\NVEAYCLR CECKYEE\RSS\STIKVTIIYLSIL GLLL\LYMVYLT\LEPILKRRLF GHAQLIQSDDDIGDHQPFQKCT RCASPLPQFEPTCWNKVEYAQ QALSFQVQEQRKSV\FDRACC PQLNLGN
25336	55704	A	25476	11	1323	VVLLVSVNTEAESEKAATEQR \PLEGTDQTLDEVEEQEESKAA ACGSKKRVPVPGIVYLGHIIPPHF QPLHVRNLLSAYG/RSPSHYDL WNLKYLHHFTWSHHSEHLAFE RQVC\HRQHLRVEVTQAKCETI FYLQSVWGGCFLAVDGDLAH PDGSWTFARPTQEQLRARKA AQPVGKVLNYYPTQLSLECEVP SQPMGTGHSRGLCQDVKVIN VPVSFVWCALVAGLLVVVPPPP PQAPAEVSDISLKRGLQREIEQ CRRDIQNFPFPCASEELASQLFP LMEVPQGRGTTGFMNAPLTTS EVRGLKKELKPLDDPERVAEQ IDQFLGSKLYTWTELMSILGILF SKEERNMICRAAMGAWERDYP AGQNIPAADVTFPARDPQWNN NNAAHQKNMRDLQELIIKGIKE SAPRPQNLTKAFDEQQEKDEGP
25337	55705	A	25477	1	490	GTSGTRPLVSVNMEAESEKA\ ATEQELEGTEQTLYAEEEQEE SEEAACGSKKRVPVPGIVYLGHI PPRFRPLHVRNLLSAYGEVGRV FFQAEDRFVRRKKKAAAAAGG KKRSYTKDYTEGWVEV\RDTR\ IAKRVA\AALLK*PMGARRRSP FRYDLWNLKYLHR
25338	55706	A	25478	2	574	

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25339	55707	A	25479	160	1548	KTSSQTLSLALTMFQRLNKMFMV GEVSSSSNQEPFNEKEDDEWI LVDFIDTCTGFSAAAAAEDIS EESPTEHPSVFSCLPASLECLAD TSDSCFLQFESCPMEESWFITPP PCFTAGGLTTIKVETSPMENLLI EHPSMSVYAVHNSCPGLSEATR GTDELHSPSSSILPNKMLSVHV GTAIHNQAALCQSVESYWQCGI QLLTQFQSQSKLGQLLAATCKE LPGPKESRRATAKDLWEVVVQIC SVSSQHKRGNDGRVSLIKQRES TLGIMYRYVLEPLVLTILSLFV KLHNVREDIVNDITAEHISIWPS SIPKKQMSSRTFMSQEETVCRA AHTPSLPEEKWVEQLIYALVVA AARIMAMWGPNAAWLVFLAA AGPPPLTPPHSP/PPPPPALGR WMGPPLRDSASGLPRPPGRISE DSGAWACGPALCPRPAIPSPAP ALRVPEALRLWGTCVS
25340	55708	A	25480	1	380	FTSPKTARNWGWLMQVRNQR LVLGKAGGKKGSPLQRRGNG HHGGTRLICALVLVSMRPLAT FAEPQTETCTVAPRERQNCGFP/ GVSRRPQCANKGCCFDDTVRG VPWCFYPNTIDVPPEEECEF
25341	55709	A	25481	3	2367	
25342	55710	A	25482	2	1230	WRRSRRRRPPAPQAGGGDFRA GISPPTGKKSLGLMEPQGNHYR CRCLQVAGSQAWARCVMPEL VVQKVVGHP/LVLLSVVDHFNR IGKVGIQKCVIGLFWGSWQKK VLDVLNSFAVPFDEDDKDNSM WFLDHDYLENMYGMFKKVNA RERIVGWYHTGLKIHKNGITIN ELMKRYYPNSVLIIDVNPCKDL GLPTEAYISVEEIQDDGTPTLKT FEHVTSEIGAESYLEKVATGKL RINHQIIYELQDVFNLLPDVSLQ EPIKAFYLRTNDQM VVVYLASL IHSVGLTDPFC\VALHNLINNKI ANQDGDKKEGQEKES/KKDR KADKGDKDKEKSDVKKEQK NHCLKEKYRFRQDSLPPDPRVL GLELTPPVARQYSPQDLSEIPRH ADFRCDPAHFQLWWSQGETPS

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25343	55711	A	25483	3	1042	DRYCCRCLRVAGSQAWRAGC VAMPELAVQKVVVHPLVLLSV VDFHNRIGKVGNGKRVVGVLL GSWQKKVLDVSNFAVPFDED DKDDSVWFLDHDYLENMYGM FKKVNARERIVGWYHTGPKLH KNDIAINELMKRYCPNSVLVID VKPKDLGLPTEAYISVEEVHDD GTPTSKTFEHVTSEIGAEAEAEV GVEHLLPDIKDTTVGTLRQITN HVHGLKGLNSKLLDIRSYLEKV VTG\KLPINHQIHYQLQDVFNLL PDVSLQEFVKGFYLTNDQMV VVYLASLIRSVVALHNLINNKI ANRDAEKKEGQEKEESKKDRK EDKEKDKDKEKSDVKKEEKE
25344	55712	A	25484	257	1566	GLEHLCNPRWPLFLRAMDST VPSALELPQRLALNPRESRSP EEHPHLLS/SLAAVQTLANVIRP CYGPHGRQKFLVTMKGETVCT GCATAILRALELEHPAAWLLRE AAQQAENSQDGTAFVLLTE ALLEQAEQLLKFGFLPRPQLR/EA YATATA/EEKQVGQL/AAAGIN VAVVLGEVDEETLTLADKYGI VVIQARSRMEIHYLSEVLDTPLL PRLPPQRPQKQCRVYRQELGD GLAVVFEWECTGTPALTVVLR GATTQGLRSAEQAVYHSIDAYF QPCQDPRIPGAGATEMALAK MLSDKGSRLGPNPGLAFAR ALKYLPKTLAENAGLAVSDVV AEMSGVHQGNLLMGVGAEGI INV AQEGVWDTLIVKAQGFRA VAEVVLQLVTVDIVVAKKSPT HQQIWNPDSSKTKKRPPPVEK

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25345	55713	A	25485	145	1918	PLEYFQRSVSGVPQLLFLEHLC NPRWPLLSLRAMDSTVPSALEL PQRLALNPRESRSPREEEPHLL SSLA AVQTLASVIRPCYGP HGR QKFLVTMKGETVCTGCATAILR ALELEHPAAWLLREAGQTQAE NSGDGTA FVVLLTEALLEQAEQ LLKAGLPRPQLREAYATATAEV LATLPSLAIQSLGPLEDPSWALH SVMNTHTLSPMDHLTKLV AHA CWA IKELDGSFKPERVGV CALP GGTLEDSCLLPGLAISGKLCGQ MATVLSGARVALFACPF GPAH PNAPATARLSSPADLAQFSKGS DQ LLEKQVGQLAAAGIN VAVV LGEVDEETLTLADKYGIVVIQA RSWMEIHYLSEVLDTPLLPRLLP PQRPGK CQRVYRQELGDGLAV VFEWECTGTPALT VVLRGATT QGLRSAEQAVYHGIDAYFQLC QDPR LIPGAGATEMALAKMLS DKGSRLEGPSGPAFLAFAWAL KYL PKTLAENAGLAVSDVMAE MSGVHQGGNLLMGVGT EGIN VAQEGVWDTLIVKAQGFR A VA EVVLQLVTVD EIVVAKKSPTHQ EIWNPD SKKAK/KHPPP VETKKI
25346	55714	B	25486	1	642	
25347	55715	A	25487	3	395	FLPVNLTHDWQGSSALATLERP LSQVRLKR FVGTLIAFMVSAIVI LATASMAVASITESVQTAA FID NMARNVSNKLLLQQGIDQKIL ALLQSLEAALEYVGEQQDALA FQQQ*NCNWGHKHCIIISLPWN
25348	55716	A	25488	3	358	HEPMCGETHQALQGAMEKLW SRFMELMQE/KKVDLKERVEEL EHCCI*LSGERQTPSGSGKPGHG KESCTLV RGAPASESCPPAGEYI ALYQSQRAVRKEE ECISRLAQD KGEVKVKLLE
25349	55717	A	25489	1	250	VQCGGIPPGQNNKEEMEVLPEP PPPINRKKDKSYATAMGPFLRQ EALSGELLACLVIQD*QGNWV YKPISFN IYKKLRKSIRG
25350	55718	A	25490	1	702	
25351	55719	A	25491	1	252	
25352	55720	A	25492	1	122	LAPLVTYFSSLSLGFFNLKGKL APSSWRC*GLNEIIRGKH
25353	55721	A	25493	3	505	

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25354	55722	A	25494	1	3345	MRVGFRDIVGSLSEYSFGCPVN YEVFHSVWITLCCLMANDRKP QFLYFFQFFSFHGGRNLMSSFH PGNGHNDSRRSVFYANEKWEF LDPTPKDLEESIVQEEKKEPTPE GNKVSQRLKNLPHTSLKAKQL LQTSSNTRGTVITATRLAFDLRT QSTKCSHPASGSSGHSTDFQLE GEWGLWDLGTKGFKLPYSLSI DIDNVKSPHPHELKTLTVSLGS NRRMGLEKKECHQKQGALREQ LQVHIQNVEILVSE
25355	55723	A	25495	296	1350	TLWLQGEQPSTQEIHEKV/LNE AMGAMMYHTIILTREDLEKFK APRVIVQIGSGYDNVDIKAASE LGIAVCNIPSAAVEETPDSTICHI LNLYQRNTWLYQALRGQAVA VRAKAFGFSVIFYDPYLQDGIE RSLGVQRDLLYQSDCVSLHCN LNEHNNHLINDFTIKQMRQGAF LVNAPHGGLVDKKALAQALKE GRIRGAALYVRESEPFSAQGP LKDAPNLICTPHTAWYSKQASL EMREAAATEIRRAITGHIPESLR NCVNKEFSVTSAPWSVIDQQAI HPELNGATYRYPPGIVGVAPGG LPAAVEGIIPGGIPVTHNLPTVA HPSQAPSPNQPTKHGDNREHSN
25356	55724	A	25496	694	1185	PKPFKEGTIRGAALDMHESEPF SFAQGPKLNAPNLICTPHTAWY SEQASLEMREAAATEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAHPENGLATYRYPPGV VGVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTK* MK*KQMGEVA*GAARIRGETL GLNGFGCTGQA/VAVRAKAFG FSVIFYDPYLQDVVERSLGVQR VYTLQDLLYQSDCVPLHCNVN EHNHHLINDFTIKQMRQGAFLP PKPFKEGTIRGAALDMHESEPF SFAQGPKLNAPNLICTPHTAWY SEQASLEMREAAATEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAHPENGLATYRYPPGV VGVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTKH



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25357	55725	A	25497	290	1251	PFMLYVSISTLYIAFCHILNLYR RNTWLYQALWEGTRVQSVEQ MGEVA*GAARIRGETLGLNGF GCTGQA/VAVRAKAFGFSVIFY DPYLQDVVERSLGVQRVYTLQ DLLYQSDCVPLHCNVNEHNNH LINDFTIKQMRQGAFLVNAARG GLVDEKALAQALKEGTIRGAA LDMHESEPFSAQGPKNAPNL ICTPHTAWYSEQASLEMREAA ATEIRRAITGCIPESLRNCVNKE FFVTSAPWSVIDQQAHPENLG ATYRYPPGVVGVA PGGLSAAM EGII PGGIPVTHNLPTVAHPSQA PSPNQPTKHVDNREHPNEQ
25358	55726	A	25498	1	1538	MLLQKTQFEYAFKKKRKLEES KKRGAGPASSDPRWRGSSQTA PHASEVSGAPLGRSCETTRDTG VGPSPRQWL GAGAGTWQHRA RAASTPSSRGLRALQ TWGGGE VMNGPLH\PPPRVALLD/SRNC TVEMPIKDLATMAFC DTHSTQ EIHEKILHEALGAMRYHTITLA RADLEKFKALGVIVRIGSGYDN VNIKAACELEIAVCNIPSA AVEE TANSTICHILSLYRRNTWLCQA WARKHVCYSMGQIREVALGG AHIGGETQG\LIGFGSTGQAVPV RAEAFGFSVIFYDPYLQDGIERS LGVQRMSQGAFLVNAARGALV DEKALAQALNNGKIR/GAALDV PQSELFSAQG\ SLEMREAAATE IRRTITGCIPESLRNCVNKEFFVT SAPWSVIDQQAHPENLGATYR YLPGFVCVAPGGLPAATEGII PG GIPVTHNLPTVAHPSQAPSPNQP TKHGDNPEHPNEQSRECKVII QIHLRPRDSEKLMNSEKTNLTV FLADSGHMHY
25359	55727	A	25500	1	2595	
25360	55728	A	25501	561	1023	SGHDAYREQIQEYRVISLLNLP N\DHVNKCQSTNDAYPTGFRIA VYSSLIKLVDAINQLREGFERK AVEFQDILKMGRTQLQDAVPM TLGQEFRAFSILLKEEVKNIQRT AELLLEVNLGATAIGTGLNTPK EYSPLAVKKLALKSLAFVGNLF
25361	55729	A	25502	2	227	
25362	55730	A	25503	262	428	

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25363	55731	A	25504	389	2310	ATSGPPGRSLGSACTIWVLVWT GSIPIYSFHGKVEKYMCFHNMS DDTWSAKVFFPLEVFGFLPMG IMGFCCSRSIHILLGRRDHTQD WVQQKACIYSIAASLAVFVVSF LPVHLGFFLQFLVRNSFIVECRA KQSIFFLQLSMCFNSVNCCLD VFCYYFVIKEFRMNIRAHPSR ATEEVSKNLVAMKEILYGTNE KEPQTEAVAQLAQELYNGLLS TLVADLQLIDFEASLGLHGLEQ AVDLALPIAQAQGEVLNNGKC MDQFPVDVYQGGAGTYVNMS TNEVLANIGLGLMGHQKGEYQ YLNPNHDVNKCQSTNDAYPTG FRIAVYSSLIKLVDAINQLREGF ERKAVEFQDILKMGRITQLQDA VPMTLG\QEFRAFSILLKEEVKN IQRTAELLLEVNLGATAIGTGL NTPKEYSPLAVKKLAEVTGFPC VPAEDLIEATSDCGAYVMVQG ALK\RLAVKMSQ\CNDLRLSS GPPG\SSIMPAKVNPVPEVYN QVCFKVIGNDTTVTMAAEAGQ LQLNVMEPVIGQAMFESVHILT NACYNLLEKCINGITANKEVCE GYVYNSIGIVTYLNPFIGHHNG DIVGKICAETGKSVREVVLERG LLTEAELDDIFSVQNLMPAYK
25364	55732	A	25505	133	375	
25365	55733	A	25506	3	505	ARGREGVSRERPLLSARRLGA EWDSAGAETASGLQVPRLGGS WPQTSVFSAAVKARGCRIATLP MDLIGFGYAALVTFGSIFGYKR RGGVPSLIAGLFVGCLAGYGAY RV\SNDKRECKKCHWFTAFLPG LPSMGVRFKRSKIM\PAGLVA GL\SLM\MILRLVLLLL
25366	55734	A	25507	244	696	

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25367	55735	A	25508	1	1442	MGQLHQAQASADIATSRLQQT SLTDVTRHQQFFSTYNTDDFIQ FTATYREQTRTRRQRQYAVNH VTFFFGKCTFRDRHRHRVIGIVL NIGLTFPAHQTQDGIGSTRSQR QSRLVANKVATRNLVKHFDDD REANRGIQEAQTEHHHRGVLV NESRQRFGCQQHNRHRNHYRR HHHRQMVNHPYCSNYRIQRED GVKDDNLCDDHPETGIQLYASL LLQVFFFAANIYGWYAWSRQT SQNEAELKIRWLPLPKALSOLA VCVVSIGLMTVFINPVFAFLTR VAVMIMQALG\LQGVMPQLQA DAFPVWDSCMMVLSIVAMILM TRKYVENWLLWVIINVISVVF ALQGVYAMSLEYIILTFIALNGS RMWINSALIHQVVLDLIQQGIVI VWRDHLHMQRLHRLLAYHPC MYLVHIADFRDFPAHTRLQVQ RFPAPVHLQVIHSRYLSTVATR YAESEATPVSGALGLLCPTLPV
25368	55736	A	25509	133	375	
25369	55737	A	25510	2	471	AFAQRETAGRRVGQRWCGDCF RTPGTALGGSWPQTSVFSAAV KARGCRIATLPMDLIGFGYAAL VTFGSIFGYKRRGGVPSLIAGLF VGCLAGYGAYRV\SNCKRECK KCHWFTAFLPGLPSMGVRFKRS KKIM\PAGLVAGL\SLM\MILRL VLLLL
25370	55738	A	25511	3	432	NSRVDDFVAAQDAKGGKVPAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARA EKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIADVDPIELV VFLPALCRKMGPVYCIK GKAR LGRLVHRKTCTTVAFT
25371	55739	A	25512	59	882	SRLKNASIFVASPSGKKA GKK VAP/APAVVKKQEVKKVVNPLF EKRPKNFDIGQDIQPKRDLTSFV KWPLYQRQRAILCKWLKVPP EINQFTQALDHQTAALLQLAH KYRSETKQEKQRLALAKKK AAGKGGIPTKRPPVLRAGVNTI TTLENKKAQPVVIAHDVDPIE LVVFLPALCHKMRVPYCIKGE ARLGRVHRKTCTTVAFIQVNS EDKGALAKLVGAIRTDYNDRY NEIRRHWWGGNVLPKSVACIG KLEKAKAQELATKLG

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25372	55740	A	25513	1	833	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKRPK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPPAINQ FTQALDRQTATQLLKLHKYR PETKHEKKQRLARA EKKAAAG KG\DVPTKRPPV\LRAGVNTFT PL\VENKKAQLVVIAH\DVDPM RGWLSFLPAL\CRKMGVPYCIHK GK\ARLGRV\HRKTCTTV\AFT QVNSESQRRLWAKLVEAIRTN YND\RYDEIRRH\WGNDLRPK\ SVARI\AKLEKAKAK\ELATKLG
25373	55741	A	25514	1	1176	MEKELVDHTGLFLSAHASEAL ALKLMIYSEVAHKLRAVRSQH PDMGVSLPLTPANSCPKTIERM RRSRELEREKDQSIETDHLPA FGSTFLKTPLSCKTLMKYICYA FIINLSFVKGVSAVTLMMSEES NMQMQFSVSITSGFGPFKSHIIA AIPNAERKESQGEKMAPAPAVI KKQEAKKVVNPLFEKRLKNFGI GQDIQPQRDLTRFVKWPHYIRL QRQRAILSAHKYRPETKQEKK QRLLAQAKKKATSK/EDIPTKR PPVLRAGVNMVTTLVENKKAQ LVMTAHDVDPIELAVFCLPAPC CKKGVYCIHKGKARLGHVHR KTCTTVVFTKVNSDKGALAK LVEAIRTN\RYDEIRRH\WGNDLRPK\ NVLGLKSVAHIIKLEKAKVKEL
25374	55742	A	25515	2	524	
25375	55743	A	25516	144	412	AGSCPFAAGPGLSGRCFVLIR FILIQRAGKTRLAKW\YMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVSGTFKILPPLWLASN
25376	55744	A	25517	38	476	
25377	55745	A	25518	235	892	RSRVGTNRLFGETYPRASGPQ STALLTAYKKMTDLVAVWDV ALSDGVHKIEFEHGTSGK/REV VYVDGKEEIRKEWMFKLVGKE TFYVGAAKTS/ATINIDAI SGF AYEYTL\EINGKSLKK\YMEDRF KNPPILWVLHM\DG\ENFRIVLE KDAMDVWCNGKKLETARDFC KMSDTISDDTKVDEQERALSRT PEDKWNFRPAVPMRGERGSPS HCGQAH

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25378	55746	A	25519	1	1233	MQLKFPGRQKIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGV KYIPNRGPLDKCHHGKCVATG TSYMCKCAEGYGGDLCDNKN DSANACSAFKCHHGQCHISDQ GEPYCLCQPGFSGEHCQQGLLG GVREMLRCKVRSNIVTMKAKL SFRICMTLTILANMWPRPILGG VDQIPIKPKSKVLYLGAASGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLNVNAKKRTNIIPVLEDA RHP/HQPDQARSVALNAHTFLR NGGHFLISIKANCIDSTASAEAV FASEVRKLQQENLK PQEQLTLE PYERDHA VVDYSSSSATEQRRRT ENDSDKLTEVGFRKLVINFSKL KEDVRTHHKEVKNLEKRLDEW LTRINSVEKTLNDLMEAENHGT KKYVTQAQASVAYLIKWKKG
25379	55747	A	25520	78	978	AAGHSAKKSCLSLPAWSFPLG STRAQWHVRRQLARISGGGRH RCGRRGQ\GKTRRRMGPMVVS VEPHRHEGVFIYRGAEDALVTL NMVPGQSVYGERRVTVTEGGV KQEYRTWNPFRSKLAAAILGG VDQIHIKPKSKVLYLGAASGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLNVNAKKRTNIIPVLEDA RHPLKYRMLIGMVDVIFADVA QPDQSRIVALNAHTFLRNNGGHF LISIKANCIDSTASAEAVFASEG EKLQQENLK PQEQLTLEPYERD HACV\VG VYRPLPKSSSK
25380	55748	A	25521	230	314	QMPGNPAFSA*CDAGASYQA YVNSAIY
25381	55749	A	25522	1360	1848	RFRALV/TEGFSLRELPVATVL VASSTVTKRFIFLLAAD\VRLA LRRSI\THPFVRKQELTVYTLNN ELENLLTNVVNQAQQGGKVML DSVPVDPNMLNQFQSTMPQVK EQMKAAGKDPVLLVPPQLRPL LARYARLFAPGLHVLSYNEVPD EELKIMGALM

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25382	55750	A	25523	91	1184	AAACSPPPPARLTYGSETLRGG DCSKMAAGCCGVKKQKLSSSP PSGSGGGGGASSSSHCSESQC RAGELGLGGAGTRLNGLGGLT GGSGSGCTLSPPQCGGGGG GIALSPPPSCGVGTL\LPSTAAA TSSSPSSSS/APASSSPGSRK\M VVSTE\MC\CFCFDVLYCHLYGI \QQP\RPPRFTNEPYPLFVTWKIG RDKRLRGCGTFSAMNLHSGLR EYTLTSALKDSRFPPMTRDELP RLFCSVSLLTNFEDVCDYLDWE VGVH\GIRIEIHQCKKASKR\TA TYLPEV\AKEQGW DHIQTIDSL RKGGYKAPITNEFRKTIKLTRY RSEKMTLSYAEYLAHRQH HHHF QNGIGDPLPAYNHYS
25383	55751	A	25524	3	154	
25384	55752	A	25525	575	1707	TALLLTQSLFGGFLTQTTHMKFG AVTRI*NRKTGNSKKQSTSPPPK ERSSSPATEKSWMENDFDELRE EGFRRSNYSELREDIQTGKEV ENFERNLEECITRITNTEKCLKE LMELKTKARELCEECSLRSRC DQLEDCLLKKLHSHQANPEFDL ITEHLTLCIRISIQIKAYLSLSKA QSSLSHRPPTYLAYLFNGFRLF KNLKAYLHPGEINSFIAHTKPV WWSLHTDAHEIWCRSDCLKLV PTLPLIPLEAALRNITHSLSIPPP KNFRRPNTSTLFCVIFLINIRRQE YQASEPKPSHRIPCDLQRIKYL IQLTRDVKDLFKENYKPLRNEI KEDTNKWKNIPCSWVGRINIVK MAILPKPLLVIPRQTGSGMDPQ QTSGDLQKCLTVLRKTNKQKAI ASTSRKRTMQKLHLKEKLINS KDQRTNDKNHMIISIDAEKAFN KTEHRFMLKTLNKLINSRWIK DLNVKPKTIKTLEENLGNTIQDI VMDKDFMTKTPKAMATKAKI DKWDLIKLSFCTAKETIIRVY RQPTERESIFVIYPSDKGLISRIY KELAIPGKGSSNVSKDSKMSK HQKMQGENKHD

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25385	55753	A	25526	110	569	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DL PWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGANHHGHRASGNSHSGS
25386	55754	A	25527	2	464	LFGGLFTRRRMKFGAVTRIR\DF PWEINPLSSCSLL/CEKDPRTTS GPQTDQPSKHLTNLKSASTPPP YNPFITSPPHTRSGLQFRSTSSPP APAQQFTLKKVAEAKGIVKVN APFSLSDLQISVRLGSFIKYEKS SPVHGSFGSNPETLYSPRP
25387	55755	A	25528	162	206	
25388	55756	A	25529	74	446	TAMLLTQSLFGGLFTWTRMKF GAVTRIG\DL PWEINPLYSCSLL SRFKKIKACYHSPATSWPFKTY KLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPPCGAQPVPS FVLNTFLHNSLCRA
25389	55757	A	25530	66	311	FGAVTRIG\DL PWEINPLSSCSLL REKEPPTTSGPQTNQAKKHLTN FKSGACYTCRKSGHWAKECPQ PGIPPKPRPICVGPH
25390	55758	A	25531	728	825	MKFGAVTRIG\DL PWEINPRSSC SLLHEKDPPM
25391	55759	A	25532	291	311	TALLLTQSLFGGLFTQTHMKFG AVTRI*NKKNNTK
25392	55760	A	25533	1	1056	
25393	55761	A	25534	245	487	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DH PWEINPLSSCSLFQ EKDPPTT/SGPQTDQPKKHLTNF KSTSFVFSSCIPPP

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25394	55762	A	25535	818	2391	TALLLTQSLFGGLFTQTRMKFG AVTRIGADIPWEINPPSSCSLFLP/ RLPLLHFPAGPSTPQPLL/HSPS AASPAFLGQGQDLINLVFKVYN NRKKLQFLASTVTQTPATSPA KNFQTPEPQQPGVPPEPPSPGAC YKCQKSGHQAKECPQLRIPHLS YAWTFNDNPLYVQEDNRRFVS QETGNLYIAKVEPSDVGNITCF ITNKEAQRSVQGPPTPLVQRTD GVMGEYEPKIEVRFPETIQA DSSVKLECFALGKIDDSIREKG AIRIKPSSILMRCNCLVQSPILVG EGWTGARCQGKSSTANPKLSL KSRTSNKKMKAFMSALQATFE EETLQRVNSFFMHNVLNCLLP NSGTCLFETAPPEWEQKIQNTH LSIYDNLLWECKASGKPNPWY TWLKNGERLNPEERIQIENGTLI ITMLNVSDSGVYQCAAENKYQI IYANAELRVLGSQLVHFRENGT CLSDEVIRDSDFMSGMTVVHAF TSGSQGTTTENQDELQIKFISAR HSQATEGINSTSAKFD
25395	55763	A	25536	425	749	IASLLTQSLFGGLFTWTHMKFG AVTRT/RGDLPWEINPLSSCSLL HEKDPPTTSGPQTDQPKKHLTN FKSAQLKASGK/DLQKPYQHFQ TLQQLLPLQWAPCYGPSSVSI



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25396	55764	A	25537	2	2204	IDMIFTGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMGKFKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDVPNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLGFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWIEEEKYPIINYFTTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLPEINPLSSCS LLHEKDPPTSGPQTDQPKKHL TNFKSAARPTFLGQGQVPLNPF SFTLSGKSCFPRRQEPNRLFP PNLLSLCPNPLFCNPFSTFLE GKNHHPHPSVSQVFSGLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
25397	55765	A	25538	110	542	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DLPEINPLSSCSLLC EKHPPTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGASCPLPG
25398	55766	A	25539	1	781	MPLQPLATPFTSPGSPSVAQVT TNTGEPGFAQQEYAETPQTAR PPHPALRALQASVHQTPLRG DCLGSSESATALHGSGEPNKL PPGRPTERGGLFKCSVPLRTVR GCRAGLRGTTETVPSSLQRQPAG DVGWINNKSTTALDRTPTDTQ RTRRPPPKQKQGRALKERPR DSDSAREGPLKAVAGLFGGLFT RTCMKFGAVTRIG\DLPEINPL SSCSLLHEKDPPTSGPQTDQPK KHLTNFKSDLLSLATED

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25399	55767	A	25540	1571	1781	TALLLTQSLFGGLFTRTRMKFG AVTRIG\DLWPWEINPSSSCSLLRE KDPPTTSGPQTDQPKKHLTNFK SA
25400	55768	A	25541	2150	3195	TVLLLTQSLFGGLFIWTRMKFG AVTRIG\DLWPWEINPLSSCSLLH EKDPPTTSGPQTDQPKHLTNF KSDED
25401	55769	A	25542	4688	5149	TAMLLTQSLFGGLFTRTRMKFG AVTR\IRGTDLPWE\INPLSSCSL LREKDPMTSGPQTDQPKH\L TNFKSGACYTCWKSGHWAKER PQPGIPPKPRPICVGPLKIRTCS THLGQATPRAPGTLAQGSLTDS FPDLLGLAAEDSHCLIASEAP
25402	55770	A	25543	1	433	MAAFPAALNRPTRARARRRRIS AHSASAAAAVVVAGTARGM VPGSEGP\CRA\GDEVADWEIVI EGTANLGPYFEGLRKHYLLPAI EYFNGGPPAETDFGGDYGGTQ YSLVVFNTVDCAPESYVQCHA PTSSAYEFVTWLDGIK
25403	55771	A	25544	1	235	
25404	55772	A	25545	1	301	
25405	55773	A	25546	2	438	
25406	55774	A	25547	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
25407	55775	A	25548	1	3965	RRFQPLPSAALRRCPPARVGG RWVSAEKVNEGSGGGGSQRL TRRARSTARVPAPGTMDAPRAS AAKPPTGRKMKARAPPPGKA ATLHVHSDQKPPHDGALGSQQ NLVRMKEALRASTMDVTVVLP SGLEKRSVLNGSHAMMDLLE LCLQNHLNPSHHALEIRSSETQ QPLSFKPNTLIGTLNVHTVFLKE KVPEEKVKPGPPKVPEKSVRLV VNYLRTQKAVVRVSPEVPLQNI LPVICAKCEVSPEHVVL
25408	55776	A	25549	1	388	

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25409	55777	A	25550	1	1748	MVLARVARRPAGSAEAQASLA GKAALPERARKMSSPGIDGDPK PPCLPRNGLVKLPQPNGLGAA SITKGT PATKNRPCQPPPPPTLP PPSLAAPLSRAALAGGPCTPAG GPASALAPGHPAERPPLATDEK ILNGLFWYFSACEK\CVLAQVC KAWRRVLYQPKFWAGLTPVLH AKELYNVLPGGEKEFVN LQGF TARGFEGFCL\GVSDLDICEFI DNYALSKKGVKAMSLKRSTIT DAGLEVMLE\QMQGVVRLELS GCNDF\TEAGLWSSLSARITSLS VSDCINVADDAIAAISQLLPNLA ELSLQAYHVTDTALAYFTARQ GHSTHTLRLLSCWEITNHGVVN VVHSLPNLTALSLSGCSKVTD GVELVAENLRKLRSLDLSWCP RITDMALEYVACDLHRLEELVL DRCVRI\DTGLSYLSTMSLSRSL YLRWCCQVQDFGLKHLALGS LRLSLAGETPVSA LTA VTT PHLVHPPNLPGPCANSHPARTH SPGSEAE EGGGAARPSPEPWA ARTEPPSDPAAGCPLTTTGLS GLVQLQELEELELTNCPGATPE LFKYFSQHLPRLVIE
25410	55778	A	25551	1	377	MRRLTRRLVLPVFGVLW/DGA AVLLGNQEEVGGAD/WDLKCR PL/EVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTL/SRPSLR*RQRP*IP CIRSQHGNRKRIPIRRIFI
25411	55779	A	25552	222	287	
25412	55780	A	25553	2	918	GHCEVNRDWLQPLLHRVKEDY TRVVC PVIDIINLDTFTYIESASE LRGGFDWSLHFQWEQLSPEQK ARRLDPT EPIRTPIIAGGLFVIDK AWFDYLGKYDMDMDI WGGEN FEISFRVWMC GGSLEIVPCSRV GHVFRKKHPYVFPDGNANT\YI KNTKRTAEVWMDEYKQYYYA ARPFALERPFGNVESRLDLRKN LRCQSFKWYLENIPELSIPKES SIQKGNIRQRQKCLGISKGRITTK KPQT*S*ALCQGQRRRCQSPRV WGLSHYTQADSFQGELVALFSS FTFVSLGAPVVSCSFARMGD

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25413	55781	A	25554	84	2804	PRGSWRCRRDLKCRPLSHSDA DWDDLWDQFDERRYLNAKKW RVGDDPYKPVCFSTSGRVSGSP AIRAIPDTRHLRKKATSNLSRQ QLASPLRSSYCGVTPGPIAIGP LWTSGSLRTPNHIDTVFAPGLP QPWFHLNYLRAMPSLSSAPKCT LLVYCTDLPPTSIIITFHNEARST LLRTIRPPAVSTSQMAMTAAA LTPAPLRTYSVHLSCRAHQLV MPQRKKYDETWVREHTKHSKI SLFPSCRLHFCLSRRRMAVGS GKFQVMGDLGEPFLVRVWLRI WTLGPDFHGSALNSVLNR\TPT HLIREIILVDDFSNDPDDCKQLI KLPKVKCLRNNERQGLVRSRIR GADIAQGTTLTFLDSHCEVNRD WLQPLLHRVKEDYTRVVCPI DIINLDTFTYIESASELRGGFDW SLHFQWEQLSPEQKARRLDPT PIRTPIIAGGLFVIDKAWFDYLG KYDMDMDIWGGENFEMMTVQ VLQPRRSEALICTWKVHHLTRE STALLIALVQAPFTGPQAKKIQ QSPCPAMLAPEYAPEASVLVCT VSLLTYTTTLQSEISFRVWMC GGSLEIVPCSRVGHVFRKKHPYV FPDGNANTYIKNTKRTAEVWMD EYKQYYYAARPFALERPFGNV ESRLDLRKNLRCQSFKWYLENI YPELRYPYLLLELWLAESRGPQ LAWSGEETDNDQLDEGFYVYQ

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25414	55782	A	25555	1	2439	MPLKKKGDEPQMEKYIQERSM LAPPSCSDHRDTHSRCIPHIQRL FQCPLGPWFQGEQRNQARGEG GALHPLPVTAGTVALPGAAQPT PARGNVTESLQGATVKLVCKK TSFIFYCQHPAQCLALACDHEC IDLCTHVASTSLCLRGYQGMKR TIERALTATLAQGTAVPPFPSDV PSQKDAAVRGKGDGSEWERTL TMKRSNLNSEKILPAILLTEFP RHQSPCSFDKPHHPNTLGCWLP TVLETRGGTNGQSSGKREATLC PCPLLGLPISEEDCVPPALLLPPR G\LPPGLQLSWAPVPQFPPLGPS SLGIPA/LPLVLNLGCLPSLVCPP TSAHTSEVAPSLKSPAEPSPPAR LPRSHQPALSREMRHSDYSVSV HAICWDHDFYTLVTHYMNNTS PISSKRSSDKLNPHVLVVQDSM TILSLHNHLALAGQDMMVWEP RKTQRRQQPDSSSHSPPALV ECHPLEPEPLVAGIMYSFSGLQ GVGLRDRAVDETNRNEKRTL EMSRVEALSSFENSEFGCPPSIN TREITGNSLEGNVKKGVSPNC TAPGKRTEKKYSKIHVMVKHS GNCKRTDGIWEEYGWSWRLH MKKVFPGFMLVKGGEDAAPGT KEIKSVSGIFQRGKKKPRGRKE KNRKKRGFAFSKETNFVYLLIL VCLIGKVVVWLTSACAEPKP HGEATCRHSGPSAPLNFQPTRV
25415	55783	A	25556	2	1178	AKCVEVCGKREPPMSPLNQSA EGLPQEASNRSLNATETSEAWD PRTLQALKISLAVVLSVITLATV LSNAFVLTTILTRKLHTPANYL IGSLATTDLLVSILVMPISIAITI THTWNFGQILCDIWLSSDITCCT ASILHLCVIALDRYWAITDALE YSKRRTAGHAATMIAIWAISI CISIPPLFWRQAKAQEEMSDCL VNTSQISYTIYSTCGAFYIPSVLL IILYGRIYRAARNRILNPPSLYG KRFTTAHLITGSAGSSLCSLNSS LHEGHSHSAGSPLFFNHVKIKL VTVALKRKEDSAARERKATKIL GIILGAFIICWLPFFVVSLLPIC RDSWWIHPALFDFFTWVGYN SLINPIIYTVFNEEFRAQFQKIVP FRKAS
25416	55784	A	25557	3	146	

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25417	55785	A	25558	45	592	PSPPPPARAPSARTRRAPIAAG QGRARPPRTVSRCSAAMATKI DKEACRAAYNLVRDDGSAVIW VTIKYDGSTIVPGEQGAEYQHFI QQCTDDVRLFAFVRFTTGDM SKRSKFALITWIGENVSELQRA KTGTDETLVKEVVQNFANEYVI SDRKELEEEFIKS\ELKKA VGAN YDAQTE
25418	55786	A	25559	249	1808	INGGTLTVTL SVTNQGAETLPF GTGWHYPYFPLSPQTRIQASG YWLREQWLAGEFCEQLPQEL DFNQAPLPRQWVNNGFAGWN GQARIEQPQEGYAIIMETTPAP CYFIFVSDPAFDKGYAFDFCLE PMSHAPDDHHRPEGGDLIALAP GESTTSEMSLRA YNDTNRRSDK AFTPHPTCFPSNQNN SASPTIT PDTATIAPVSHKAFAGNALRSII SDGKLTAGSVINNASAGAVPIP ASIIVCTIGISAAVGMTNKH PAT AIDTTHIMLLSTAPSAWGNQNT RAAPNTSLLAAYRFLIDSRDTE TDSRLDGLSDAFSVFRCHSIMN CVSVCPKGLNPTRAIGHIKSML LQLPPNVEKFAGAYLIQFALFQ PLTHNRLMFFGAFADFLHADQ TFPGQITAAVKGQFVRRRLRFF AIISPSRTLS/YHTP*PRR*PR*SN FVTGRDAGRGLYNRQ*KTS/PS SICSA*GANPVVHHAMTVKFA* WQPIMKISSTSFPSMRPLSHMK TINGLTTFVAW
25419	55787	B	25560	1	567	
25420	55788	A	25561	1	741	MLILISPAKTL DYQSPLTTTRYT LPELLDNSQQLIHEARKLTPPQI STLMRISDKLAGINAARFHDWQ PDFTPANARQAILAFKGDVYTG LQAETFSEDDFDFAQQHLRMLS /GLPYRLEM GIRLENA\RGKDLY QFWGDIITNKLNEALAAQGDN VVINLASDEYFKSVKPKKLNAE IIKPVFLDEKNGKFKIISFYAKK ARGLMSRFIIENRLTKPEQLTGF NSEGYFFDEDSSSNGELVFKRY EQR
25421	55789	A	25562	3	320	IGLVLPISVRKRHAASARCLVN RRPMPRLHGLPGIPMRPPSLPRV RHAGTVFRRHRKRGSPMAY*Y GHSDVVKHREALVADLCHKAA FQLCRGQRHCRPALWRHR

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25422	55790	A	25563	1600	1908	
25423	55791	A	25564	142	326	TRRAPSAISSRCCCNHQTSKSS LVRTSSSLRSSHLRTIA*CSSV HLPISCMQIRPSQAR
25424	55792	A	25565	1	1599	
25425	55793	A	25566	393	611	HSRAVCRFYPAKTSFPFVRRCR YRQFVPR*HQNE*AGRE*QPCSI ATVLPYRALPSLAHPRLSADQL PAAHL
25426	55794	A	25567	971	1628	
25427	55795	A	25568	3	1895	
25428	55796	C	25569	1	2505	
25429	55797	A	25570	1	3345	
25430	55798	A	25571	457	790	PSFRRRYRQVVVISVRKRHAAS ARCLVNRRPMPRLHGLPGIPMR PPSLPRVRHAGTVFRRHRKRG PMAY*YGHSDVVKHREALVAD LCHKAAFQLCRGQRHCRPALW RHR
25431	55799	A	25572	1662	1767	
25432	55800	A	25573	3	603	RLRSLFFLPDKMKLKDCVMIKK IFALPVIEQISPVLSRRKLDEL IVVDHPQPPSGDYTLHPLPIIR ANRPNRFRINAGCTRTFTLSTPI NVFRHKILRTQEFPSLTHHAYSP LLVVINKAKFDGLSPEFQQALV SSAQEAGNYQRKLVAED/LAK NHRRHERSGRGS/LSPISTAKPL ATHWGIRFATCLLMCRRELIC
25433	55801	A	25574	2271	2519	HRQLVIVFQQPLVSGFHEAELS LDDAKWVLHP\ARMLAFMYSM LMAVLFLRGCCFKVLTLPGRSA ISQSTSTSASSSRCGAPW
25434	55802	A	25575	931	1213	
25435	55803	A	25576	1	2767	MAILSGLRCSIVANYIYAENNL FWLRLNPNKAIWCLRICTFATV IGGTLLSLPLMWQLADIIMACM AITNLTAILLSPVVHTIASDYL RQRKLGVRPVFDPLRYPDIGRQ LSPDAPLTTTRYTLPELLDNSQ QLIHEARKLTPPQISTLMRISDK LAGINAARFHDWQPDFTPANA RQAILAFKGDVYTGLQAETFSE DDFDFAQQHLRMLSGLYGVLR PLDLMQPYRLEMGIENARG KDLY\QF\WGDII
25436	55804	A	25577	395	467	
25437	55805	A	25578	1	675	
25438	55806	A	25579	1	4014	

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25439	55807	A	25580	1802	2385	RKISAPALIKSRTG*EMASLPTS/ HDKQIEQALADVDPVIVGVGGS YHLAESYPPVHYIATDNYALVE SAFLHLKEKGVNRFAYGLPES SGKRWATEREYAFRQLVAEEK YRGVVYQGLETAPENWQHAQ NRLADWLQTLPPQTGIIAVTDA RARHILQVCEHLHIPVPEKLCVI GVMNRRTVRSPFRESLKISP
25440	55808	A	25581	1	1568	MVKQLKLVSFLLRPGDSKQGY DKHSSLQVGLMIPVCSCIRFRKP SEQSFKFEEGTDAAFHGFWLW PCTMLNVTPIKGMMTVIYEFV DSETTLQNYDIYFTNEELTDEQ KSLIEWYRDVFRPEDLRLVESV QKGLKSRGYRGQGRIMADSSG SGISEHAWCMSRGAQGRQFCK GAKMSQVLITGATGLVGGHLL RMLINEPKVNAIAAPTRRPLGD MPGVFNPHDPQLSDALAQVTD PIDIVFCCLGTTRREAGSKEAFI HADYTLVVDTALTGRRLGAQH MLVVSAMGANAHSPFFYNRVK GEMEEALIAQNWPKLTIARPSM LLGDRSKQRMNETLFAPLFRL LPGIILLEELNWKTTAERWNS MLGPRAVKVFFSLAFLPGTLEP AQILFPTQRQGKKAALLGLW KLEIYSDNRRSPEVSTAWNSPP TGKLDNKQYMIMIPRKRENTT TRGASNARLDPPSRKGYKGHY ETIGHALEHDKQSQGSYNVEHT IKRQTPRVRRTSIIAGIYQELG
25441	55809	B	25582	1	1560	
25442	55810	A	25583	1	2115	
25443	55811	A	25584	3036	3957	RIYDAVSEPAEPVDCPRNPVCR FY*QYRDHRGKTVYDVASGDA LFISELG/PLPENVTWLSPEGEFQ KWN/GTAWVKDTEAEKLFRIRE AEETKNNLMQVASEHIAPLQD AADLEIATEEEISLLEAWKKYR VLNSRAMALITPDLIRSNTACF CSSFVLAGQTAKAAADDGLFPP IFARVKNAGSPVAGLIIVGILMT IFQLSSISP NATKEFGLVSSSVI FTLVPYLYTCAALLLLGHGHFG KARPAYLAVTTIAFLYCIWAVV GSGAKEVMWSFVTLMVITAMY ALNYNRLHKNPYPLDAPISKD
25444	55812	A	25585	1	2490	



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25445	55813	A	25586	368	761	LYCEACIMAFRMSEQPRTIKIY NLLAGTNEFIGEGDAYIPPHTGL PANSTDIAPPDIPAGFVAVFNSD ESSWHLVEDHRGKTVYDVASG DALFISELGPLPENVTWLSPEGE FQKCSGTTTRVKNAKA*TLF
25446	55814	A	25587	1	809	MPVSSYERGHAEKRUVQECCG INLTSSANTILSDCERVNGYCVL CHTTRALVTGNHHRNAVYAET PSNSRINYIVSSHNAFRMSEQPR TIKVYNLLAGTNEFIGEGDAYIP PHTGLPANSTDIAPPDIPAGFVA VFNSDESSWHLVEDHRGKTVY DVASGNALFISELGSLPENVTW LSPEGEFQKWNGTAWVKDTEA EKLFRIREAEETKNNLMQVASE HIAPLQDAADLEIATEEEISLLE AWKKYRVLLNRVDSTAQDIE WPALP
25447	55815	A	25588	1	2301	
25448	55816	A	25589	718	1131	
25449	55817	A	25590	279	513	CRRIDTWQPIYQTCGRMLAVAL LTVVTHPLNPSQRLPPDRYFTEI TV/SHRMEVVKEQIDLLAQKAF SLAYLSPCESGL
25450	55818	A	25591	1	407	PQDNAKKLRPHQLSSDEGHTG MGGTAKDVGFSVMRTYSWISS ALPKRLGGGVMPIGATIAATEEV FSVLLGNPFLHTTTFGGNPLAC AAALATINVLLGRTYRLRLSK KAICCWTVSVNWRGNIPIWYR KRVVKGC
25451	55819	A	25592	1	2079	
25452	55820	B	25593	1	700	
25453	55821	A	25594	1427	1845	ACISGFSTETSASGRVSVITDAS LFRVLPRVCGMAVAATKRSGRI TTSEALCCANQLRRRPCVSPTR STPSWLSCAV*ICTSGTT*MKR VPNARHCWICSSLIPHSGLHPQP ITAKFAPIALSSSVTSPFSSVTFG *IN
25454	55822	A	25595	2	295	
25455	55823	A	25596	1	900	
25456	55824	A	25597	1	1422	

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25457	55825	A	25598	2	535	YGNREQRAVSSHTNTWVNRAL ARGWSSLGYRWVSAWTPSR RFISQLMSRPVDASAAKVKRSA SVPCGSIPFGNCFSVRLRLSASC GCIILPVRFSSSSGSEIPSTISSGSI TLPLDLDFWPSSSRIRPVM*TV WNGTCGLPFSSLMKCMVIMIM RAIQKKMMSKPDITITLVGWN
25458	55826	A	25599	442	1368	RRTMAAFACGVVRDASEVIRPS STLVPLVGEKHAKGLFGTIVDN FYLVALIFAMGTSGLATPLVT ECMQWLFGIPHTLLGFI/LYNAI CVACGLQKGVRIASDVRSYLSF LMLGWVFIVSGASFIMNYFTD SVGMLLMYLPRLFYTDPIAK GGFPQGWTVFYWAWWVIYAI QMSIFLARISRGRTVRELCWIL WTVLGSNTLLIDKNIINIPNLIE QYGVARAIETWAALALNNGN MWGFFILWFIGPGLVNAWQNI RAQFVHHILRRNGIADGFRHLA ALTIHGKAVGQYLTIIRFTLHR
25459	55827	A	25600	2468	3907	
25460	55828	A	25601	3	3738	YKTNYTDNSEYYANVGFNVKP VKRDGKMSVMSDPDTAIYFPFP KPTPLSIDEKAYYREKIKRLLTE RNAVMVAHYITDPEIQQLAEE TGGCISDSLAMARFGAKDPASN LLVAGGGTCRSVVINAVFSYVT NVWGWAFEWYMMVMLFGWF WLVFGPYAKKRLGNEPPEFSTA SWIFMMFASCTSAAVLFWGSIE IYYYISTPPFGLPNSTGAKELG LAYSLEHFWGPLPWATYSFLSV AFAYFFFVRKMEVIRPS
25461	55829	A	25602	1331	1456	
25462	55830	A	25603	549	588	
25463	55831	A	25604	19	1629	

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25464	55832	A	25605	1	1995	MVGVRFALGLMWLTLIVAETIS ANSGIGYLAMNAREFLQTDVV VVAJILYALLGKLADVSAQLE RLWLRWNPAYHLKEATLSAEQ AARIREMTVITSSLMMSLTVDE SDLSVHLVGRKINKREWAGNA SAWHDTPAVARDLSHGLSFAE QVVSEAHSAIVILDSRGNIQRFN RLCEDYTGLKEHDVIGQSVFKL FMSRREAAASRRNNRVFFRSGN AYEVENVPDPGVEQADDIILRIT ATAICGSDLHLRYGKIPQVKHG DIFGHEFMGEVVETGKDVKNL QKGDRVVIPFVIACGDCFFCRL QQYAACENTNAGKGAALNKK QIPAPAALFGYSHLYGGVPGGQ AEYVRVLKGMWGRNLDAQPG FRSSRPLRYGAGIMTLLNISGLS HHYAHGGFNGKHQHQAVLNN VSLTLKSGETVALLGRSGCGKS TLARLLVGLESPAQGNISWRGE PLAKLNRAQRKAFRRDIQMVF QDSISTVNPQPNRLHIV/RFPLT RLNQYQPSFSTDLYHGTLKPAS LTMSGVVLLGRM/PRKTSQQV QWA\CIARTDKASMPVYSESL FVEPLERVLYVAVILTQIIRGLR DTEIETINPDIAVHFALCFHGLG SIPTKGAEKSPFLTIHKVRVKPD IPSPVSIMAPCRAHPTCEALFNN STALHSPWFCDL
25465	55833	A	25606	179	371	CVLQYTHWPACSTVA\HSRRW* NRRRLRLAVTKTGSLSHRCAG ARLAFSKKLRCRDALPASRS
25466	55834	A	25607	544	983	SVQNPRVNWIIHAALQRTGRGR RRHEQHGEDHFNAGAAGVHQ AANGLVNPPRHQVFGAHQAKG DGENHRQRGAPDGDLDQDGHF GEVILPLAEIGREEVGGERRHV AAVFDQ/S*AGPFPRPATRRPTR RVQRPSSEARTSCAWVGRW
25467	55835	B	25608	1	1746	
25468	55836	A	25609	1	858	
25469	55837	A	25610	98	288	LCRNNGEPLARSGAAMGALLD REHSRHP\PDLEG\GSQQQVCDS GGSVTAANTSGGQQVKAQLEL

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25470	55838	A	25611	1934	2812	RPQTYSDAQPGFRSSRPLRYGA GIMTLLNISGLSHHYAHGGFNG KHQHQAGLNNVSLTLKSGETV ALLGRSGCGKSTLSRVLVGLES PAQGNISWRGEPLAKLNRAQR KAFRRDIQMVFQDSISAVNPRK TVREILREPMRHLLSLKKSEQL ARASEMLKAVDLDDSVLDKRP PQLSGGQLQRVCLARALAVEP KLLILDEAVSNLDLVLQAGVIR LLKKLQQQFGT\ASLFITHDLRL VERFCQRVMVMDNGQIVETQV VGEKLTFFSSDAGRVLQNAVLP AFPVRRRTTEKV
25471	55839	A	25612	1	515	MLAVECRSLFPPLVQPVRYTD VTVKDDYNPETEQYTLTISQRT PATPDQAEKQPLHIPFAIELYDN EGKVIPLQKGGHPVNSVLNVTQ AEQTFVFDNVYFQVPALLCEF SAPVKLEYKWSDDQLTFLMRH ARNDFSRWDAAQSLA/ILHQA ERRASSARSAAVSAGACG
25472	55840	A	25613	1	1053	
25473	55841	A	25614	1	1521	
25474	55842	A	25615	430	1120	QTASTFLKRGKCASRQSKLCGN RRRKRRQRISYCLLRGTACSP AHQPDAFHQKRGNAGRHYAEC VLQYSSCSTRYSPGR/TQLINLF EVADGKRLVDLPGYGYAEVPE EMKRKWRALGEYLEKRQSLQ GLVVLMDIRHPLKDLDQQMIE WAVDSNIAVLVLLTKADKLAS GARKAQLNMVREAVLAFNGD VQVETFSSLLKKQGVDKLRQKL DTWFSEMQPVEETQDGE
25475	55843	A	25616	407	1176	AYSTSLRVKICRKTSTLLRSRV TQIRSNTKSTKRAAHCSLTASC PPRCSIHATTVTSTTPCLWRIA TMLRALARLLLRICFSGRTLKIA CLLLL VAGATILIADR/AALYHA GKVKWLLVSGDNGRKNYDEA SGMQQALIAKGVPKVFCDY AGFSTLDSVVRAKKVFGENHIT IISQEFHNQRAIWLAQYGIDAI GFNAPDLNMKHGFYTQLREKL VIAKGHGSLLTDLPAKAGTM WAIEIDVARHSRSHL
25476	55844	A	25617	3	168	NPFYSAMR\KSAGIRHILARHVE GASHMAEGYTRATAGNIGVCL GTSGRCCFRLCW
25477	55845	B	25618	169	1227	

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25478	55846	A	25619	489	740	AIARSCADYHPANFRHHRAAA RAGDDYLSRRAERQPGAKAGG SRLRAGKRPCSAFRYW*CAAG E*SVGEKIMAGDVISPKRRL
25479	55847	A	25620	146	475	
25480	55848	B	25621	38	191	
25481	55849	A	25622	662	4568	
25482	55850	A	25623	20	2661	AGHIHRPRYQHGVGTESTSIMS VASRSAERVFLTKFESWKNFPI NRGRNKMAKMRAVDAAMYV LKKEG\TPAFG\VPGAA\NPFY SPMRKHG\GIRHILARHVEGAS HMAEGYTRATAGNIGVCLGTS GPAGTDMITALYSASADSIPILC ITGQAPRARLHKEDFQAVDIEAI AKPVSKMAVTVREAALVPRVL QQAFHLMRSGRPGPVLVDLPF DVQVAEIEFDPDMYEPLPVYKP AASRMQIEKAVEMLIQAERPVI VAGGGVINADAAALLQQFAEL TSVPVIPTLMGWGCIPDDHELM AGMVGLQTGHRYEKEYTEGRKI VHIDIEPTQIGRVLCPLDGLIVSD AKAALTLLVEVAQEMQKAGRL PCRKEWVADCQQRKRTLLRKT HFDNVPVKPQRVYEEMNKAFG RDVCYVTTIGLSQIAAAQMLHV FKDRHWINCGQAGPLGWTPA ALGVCAADPKRNVVAISGDFD FQFLIEELAVGAQFNIPYIHVLV NRPAANGAQGSCHPDAPAVFR SSIFIRKSEEKLVVTMNELSASR ALPEETMPGRFELKPTLEKVLH APDNFLFMDPLPPMHRRGIIIAA IVLAVGFLLPSDDTPNAPVVTR EAQLDIQSQSQPPTEEQLRAQL VTPQNDPDQNLRYKASQKSSR KLPKRDLPHILTPFRAPMASVC AKRKGQVLHQQYSLKKYRYK
25483	55851	A	25624	1	570	
25484	55852	A	25625	312	873	APRSRVQAKIAASNTGELNALQ QLGFS\LVEGEVDLAL\PVNNA\ SDSGAVVA\QETDIPA*RQLASA AFAQSRFRAPWYAPDASSRFYA QWIENAVRGTFDHQCLILRAAS GDIRGYVSLRELNATDARIGLL AGRGAGAELMQTALNWAYAR GKTTLRVATQMGNTAALKRYI QSGANVESTAYWLYR

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25485	55853	A	25626	2	922	FSPPLHDAGEAVFWRVNKSA NYGVLDKLGARYADLSKAESQ WDEMMRTAGSLKLGTHASINS LFENITAAPADPILGLADLFRAD ERPGKINLGIGENPSCRTSSSP VFDAAIWPAPVNNASDSGAVV AQETDIPALRQLASAAFAQSRF RAPWYAPDASSRFYAQWIENA VRGTFDHQCLILRAASGDIRGY VSLRELNATDARIGLLAGRGAG AELMQTALNWAYARGDHMI/R I*RTAGGGNRTRLAYVNG*RQ TVWRWRFYPSLPAVAGATFWQ RQSVTDVAVLHRFAGDGGAAAR YPAWR
25486	55854	A	25627	911	1441	AIPSISCFLLAIKALILSAIWLNA TPSRKLEPSSK WIRSLRCPSPN RCAAASSFNISCQWFLSEYGPP NQVASGKTSFVIVFKQPRYRA VTKPNCRLMMRNGCSTLARML PVMYAMLMPVLFLRGCCFKVL TLPGRSAISQSTSTSASSSRCGA PW*PASAETNCSSPCSRPLPS
25487	55855	A	25628	1	1247	MERVLDNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGPPIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIALAMGVNAQA DFMKLGTGADEQIAAYCFKMPF VFHLIEEVS RNFGYALCLINIDH KAALNITQRTAANILLDGQMQ HAVDQFTQRTARQGSTFVQY ARLARKLATANICWSYFVPVR ASIEPLTWENAFFGVNSAIVRIT SEAPLLTPDALAPWSRVQAKIA ASNTGELDALQQLGFSLVEGEV DLALPVNNASDSGAVVAQETD IPALRQLASAAFAQSRFRAPWY APDASSRFYAQWIENAVRGTFD HQCLILRAASGDIRGYVSLREL NATDARIGLLAGRGAGAELMQ TALNWAYARGKTTLRVATQM GYTAALKRYIQSGANVESTAY WLYR
25488	55856	A	25629	1	1925	
25489	55857	A	25630	402	664	TARRLLFFRD/RTARVAVPNAA VVLPPFLPVKTMIPRSLGRRRS GGICRPLGYLVAMDAIDGLQN ADNSNGESRIATSSFRSRSARR

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25490	55858	A	25631	920	1237	IARPGCHLSHCHSEPSGRLSK*P FSCNSLKTGDF*PI*GLIQTQIFS PFAFRRIIPSGSGKVS GSHSKS HHWKAFIQKQSKWKTCSGR LR SAIPSIKLFTVASS
25491	55859	A	25632	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCASIQR QIDVSFARDATSHSSCPVTGVR FWGYPF AANKVVIAGFELEGET MTRPGLICAEGGLVMIVSLRS ELYDSYHEFTRQRVTEIVEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIP*TL SKNRPTPFS/DGLS DMIPNSSPESAPEIQLLQSRMIL GKTIAELNLRDIVEQKYFPIVGR GWARLTKEKPGELAISWMHIP QLNGQDQQLTLTVGENGHYTL EGEFTVNGMVGQRLEKDGVA LTIADIKAKPGTQFVLSQRTELE AINALQETFTVSERSKESGMLE LTMTGDDPQLITRILNSIANNYL QQNIARQAAQDSQSLEFLQRQL PEVRSELDQRKKNSTFIASSAIR
25492	55860	A	25633	170	935	LTQEDTRINLIPMAVESLHLPTQ MLINGGETYAWRNWKRGGQY KSATLNTGQPHVRARELVDS TLASDAARLT CRHGLALPALFT LIAVVTSLSPQFIRQILWSRLT KTR*AGDQLDAYSTTEWSGSA TDTHGWGKRPLYTGR*RVHRQ WYGRPASGKRWRCADYRGH* GQTRNTVCPEPAYRTGSD
25493	55861	B	25634	42	755	

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25494	55862	A	25635	793	2127	RYCKGTVMDQIRLTHLRQLEA ESIHIIREVAAEYSNPVMLYSIG KDSSVMLHLARKAYYPGTLPPF LLHVDTGWKFREMYEFRDRTA KAYGCELLVHKNPEGVAMGIN PFVHGS AKHTDIMKTEGLKQA LNK/YTTSRAKERIYSFRDRFHR WDPKNQRPELWHNYNGQINIK GESIRVFPLSNWTEQDIWQYIW LENIDIVPLYLAAERPVLERDG MLMMIDDNRIDLQGEVIKKR MVRFRTLGCWPLTGAVESNAQ TLPEIIEEMLVSTTSERQGRVID RDQAGSMELKKRQLIELIINVH NLLKNGFGFQVKVNRIALLA VEFFRLVQLAAHFSSGTLAQD KLCSWFGLNVRDSQRNAIFFQT LADHTIDGELFTFCIVAVFPNL PIYSYATIYVSSSIPISEESPSIR FACSQTSRQPPVSDSRFCVSQV
25495	55863	A	25636	360	566	GAETMGDLLWVVGILLMCSL TLVLVWLDPRPKS*RT*A*CGA LTSHQAINNGRNEKRKPIRES DP LKA
25496	55864	A	25637	1	312	LLRKSVSVIKGTIKTIIGFML LQ AGSGILTSTFKPVVAKMSEVY G INGAISDTYVMQDG*APELGL S PGRFLRHDTDFVLQLGIVMVR L AGDGSLNINAQANN
25497	55865	A	25638	517	796	PTARFGWVKGVLDLPAD/CNR Q DRFAIDVRVQGS*\WGCVLPL F RVLLFVSCALLVSVSCVLRLL FCCSS\LSLFLSGLGGGRSPK AG DVFRDRR
25498	55866	A	25639	47	411	AIKVRELSIKLKMC/YSLIKTL H G*KYRNFMVIGSMVFGKKAITH VAGVKRRTAVVVGFKVFDIQR SQFRIVVTGDLAQLLYRVIKVIT CGHFVRQHGIVLCAGVLHVGD RYQAHVKTLGGLI
25499	55867	A	25640	1	1488	
25500	55868	A	25641	2	298	CCICL/YSYAPIDVW/WG/WNT A GQVQAA*TLKAASSIVTIPLRN TFIFNYSLSGLRRRRLIIRSRR HS THASNITLIAASTASRIGWFASA YHTRSNHGR
25501	55869	C	25642	1	2064	
25502	55870	B	25643	1	1116	



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25503	55871	A	25644	312	620	SACRCCLVVVPLFVCL/GSSLSL APTFPLLASFSSSRASRVVAFGL GSLRAGSALCLPCA AVVLALRS AGTCLEWWWWHSVVLPPETK RLPSTSLIPYPASVSI
25504	55872	A	25645	2	2237	
25505	55873	A	25646	692	6383	RMSRSSDYDQYRSRNALIRRH EKMDASLHVGTKEFDISKVSEV DSVDDLLIDNAARYLLKDWKG VGELVNGVEVALEYTAERGIAL LKQNPELYWQILAEAAASIAQVG GEVWIAPKFERNGRLRLANSEI GAASQLQTYHRVDPGRPCKLD LSGMSQSRVMIAMAIACRPKL LIADEPTTALDVTIQAQIHELLLE LQQKENMALVLITHDLALVAE AAHKIIVMYAGQVVETGDAHA IFHAPRHPYTQALLRA
25506	55874	A	25647	856	1467	
25507	55875	A	25648	1823	2014	SQEIALMQFRPRLTGASGSP*RP PHRTLRLSDQNAA TIPQKRASA LIPLMRILPVRYPYGHLLLC
25508	55876	A	25649	1	218	
25509	55877	A	25650	2740	3293	IFAVNLILQCHVGGTHHQRFL FAGNGDAGNQIRERFPNAGG/E LQSPDVALLLRPAFWRRPQSSA AAAHGE*SRGSVPEAPYTRRQF ALPAPPIKCAPLPERQRPSPSR HLRLPACPGYKNRASSAKPSYS FLAQRQHLQRLSPLPQNQNLQ RRRDQRQRAGAMSARVPDLISS SRSMRRTS
25510	55878	B	25651	1	1875	
25511	55879	B	25652	1	2981	

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25512	55880	A	25653	1	1649	MTFRNCVAVDLGASSGRVMLA RYERECRSLTLREIHRFNGLH SQNGYVTWDVDSLESAILRGL NKVCEEGRIDSIGIDTWGVDFV LLDQQGQRVGLPVAYRDSRTN GLMAQAQQQLGKRDIYQRSGL QFLPFNTLYQLRALTEQQPELIP HIAHALLMPDYFSYRLTGKMN WEYTNATTTQLVNINSDDWDE SLLAWSGGQQSLVWVAEASGE WGVLACTIONFAWNRNYFVLLFV GVFLSSFGSTANPQMFALAREH ADKTGREAVMFSSFLRAQVSL AWVIGPLAYALAMGFSFTVM YLSAAVAFIVCGVMVWLFLPS MRKELPLATGTIEAPRRNRDRT LLLFVICTLMWGSNSLYIINMPL FIINELHLPEKLAGVMMGTAAG LEIPTMLIAGYFRQTSGPATYGR SVGRIRRSRRIRQSCYYQRIFSL LACELANALERPENFCGMHFFN PVHRMPLVEIRGEKSSDETIK VVAWASKMGKTPIVVNDPCPGF FVNRVLPYFAGFSQLLR/ERRG FPQDRQSDGKTVWLADGPGIS AGRCGH
25513	55881	A	25654	1590	2855	RNLLGEAADPVSGPHSAIYRPD WPKSGDCACQGPIKGSANRPA VVPVHVHGPSEDLEVFLNVFGE LPQPLIDTQILAAFCGRPMSWG FASMVEEYSGVTLDKSESRTD WLARP/LPERQWEYASPNVWY LLPITAKLMVETEASGWLPAAL DECRLMQMRRQEVVAPEDAW RDITNAWQLRTRQLACLQLLA DWRLRKARERDLAVNFVVREE HLWSVARYMPGSLGELDSLGL SGSEIRFHGKTLALVEKAQTL PEDALPQMLNLMMPGYRKA FKAIKSLITDVSETHKISAELLAS RRQINQLLNWHWKLKPQNNLP ELISGWRGISA VKSSEAGLGAL SATSGFGKLQIQHQAFTLRTRT TDQHTLLAGTLFIKILIPMVSF TFQYCCFAVPQATYCHRIAPIL GNGAMKPGRKIS

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25514	55882	A	25655	1	3315	MDELRLVLMTHIHLPPIRRAD GSFGNDLTTGAGFNDKRTVPR YARVHVYRCRKVICFTKRIPFC LDVPAHRALVVMKGTLYGMP VVAAAFEFAMGSGMSVVGGA RFVRAVEQALEDNCPLICFSAS GGARMQEALMSLMQMAKTS ALAKMQERGLPYISVLTDP TMGGVSASFAMLGDLNIAEPKALI GFAGPRVIEQTVREKLPPGFQR SEFLIEKGAIMIVRRPEMRLKL ASILAKLMNLPAPNPEA
25515	55883	A	25656	246	422	RHADTDLRR*ISDRFSPAPPADP ANGGR*TPRHAARKRRDPGTPV QPARKPSKPTRLR
25516	55884	A	25657	884	1276	LVTRQLSPGNRCNVFAFSSAVE TSLTCQGWLSPCAVCQAIS SSHNASIQVRSPAASCGSPFC SKRPSALWWTSVSPFLSPRRRTSGAN AESVSAT*SKRRSSARRSASARS TLGAALRSRTASNEWS
25517	55885	A	25658	649	1427	LPLLGWSMSPRMTAQLACDAL QMALWRRKRPRNVVHTDRGG QSVQQFRALKRHITASRETERF YLDVQKQFPKVTAAQKVIVSEA GASVYSASELAAQFPDLVSL RGAVSIARRLQDPLAELVKIDP KSIGVGQYQHDVSQTQLARKL DAVVEDCVNAVGVLDNTASVP LLTRVAGLTRMMAQNIVAWR DENGQFQNRQQLKVSRLGPK AFEQCAGFLRINHGDNPLDAST VHPEAYPVVERILAATQQALKD LMGNSSELRLNKASFLDNEEN WPLLLDALIPVANTCEMILMPA CFGLADDKLWRWLNEKLPCSL MLLPTLPPSVLGIRLQNQLQRQ FVRQGGVWIECGDGGDTTITI TQR**PAGRVYRSPGSLSGGGT HSGSNTAGTERS DG
25518	55886	A	25659	1	1878	
25519	55887	A	25660	1	4329	

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25520	55888	A	25661	2514	4173	PTSCLPDDYVGHCRGVSAAHF AGSVSCVRLLSACARPLWRHL GLALLRVWCRTFLLLSALASVF CPCSVVWGRLLFSASLSVVVW GGVFLSPLGSLSPRG TARLGAA CRSRED/RRR*WRGIFNRDTFAS AVPASVNPDKPCAPAACIRFTS TSAY*VGCSDRNA/DAEASGEG WRRFGDATLSTGQFGGEAREE VILGLIGSQA\KTGGNTPKASAV RKITLVAWPALETGLTMLSM** IG*ETRVFSVFEPSSKSIVPSSRT VTFSSNASRRIAL*ISGSASFDSL IVFA*QPPSKLNTPSSSQPCSSSP IRRRFGSVERVVLPVPERPKNT ATSPFSPTLAEQCIEAIPSAVFA APVRVAASMIISGFCALASIRPS ASTRRPSASVFITSTFLPLR*VMI SP SLNALPLIRLSAQQRNSFTRL FSPRVMANASAPVTVAAPPMS DFIESINAVCLMQARVHWRFFI ASWVVIQPPAIPENVLNRVRLC AAPGTLCLTTFVSSSGDR*NAL CNRCNRPAPCFRSSAIRFATVLA ARRHDWVWPISPLIPRPS

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25521	55889	A	25662	2221	4400	RGCVVSGKSSCSKTNLPSSDDKR TGASCLRLDLFLRYLRAHALVT AEQLAHEFSLGIAIVEEQLQQLR EQGLVMNLQQDIWVSDEVFRR LRLRSLQAAREATRPVAATTYA RLLERQGVLPATDGSPALFAS TSPGVYEGVDGVMRVIEQLAA SAINASLWESQEFVYGKPVYAV GENYSQGGYYLASFANKIWLSP QGVVDLHGFATNGLYYKSLLD KLKVSTHVFRVGTYSKSAVEPFI RDDMSPAAREADSRWIGELWQ NYLNTVAANRQIPAEQVFPGA QGLLEGLTKTGGDTAKYALEN KLVDALASSAEIEKALTKEFGW SKTDKNYRAISYYDYALKTPA DTGDSIGVVFANGAIMDGEETQ GNVGGDTTAAQIRDARLDPKV KAIVLRVNSPGGSVTASEVIRA ELAAAAAAGKPVVSMGGMA ASGGYWISTPANYIVANPSTLT GSIGIFGVITTVENSLSIGVHTD GVSTSPPLADVSITRALPPEAQL MMQLSIENGYKRFITLVADARH STPEQ/IDKIAQGHVWT/GLGDF DDAVAKAAELAKVKQWHLEY YVDEPTFFDKVMDNMSGSVRA MLPDAFQAMPLPAPLASQVRS PCLTYILLFRYHSYQYHAKEIN LRCLHGRDHRDAAFRAGLYTG VRSSTTPTGADAGIPSPGDARF AIHEYIPRNGSSRFNPGKLAPHA
25522	55890	A	25663	1	1665	
25523	55891	A	25664	475	1182	
25524	55892	A	25665	242	3059	
25525	55893	A	25666	1761	1970	
25526	55894	A	25667	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGVDVAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLK /IADQLIVGGGIANTFI/AAQGH VGKSLYEADLV/DEAKRLLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSKISYISTGGGAFLEL WKVKYLPVAVAMLEERG
25527	55895	A	25668	1108	1932	
25528	55896	A	25669	1496	1631	
25529	55897	A	25670	462	1152	
25530	55898	A	25671	545	598	

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25531	55899	A	25672	1	1761	MRGHNWIDMDQARQQSTPHT DRKICHKNDPRRTTPLRKIDAH PHTLIILPAESTLSTTKYKLRLAL LVENTNKDKSAVSVVFRGSVL HQQAAANFPNLMCLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAAIAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLENVRFNKGEKKD DETLSSKYYAALCDVFVMDAFG TAHLRAGFLLTGIGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDSLK IADQLIVGGGIANTFIAAQGH VGKSLYEADLVDEAKRLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINAVFSYVTNVWGWA FWEYWMVVMFLFGWFWLVFGPYAK KRLGNPEPPEFSTASWIFMMFAL LYVCCRTVRLGREIHRRAQIVH IDIEPTQIGRVLCRISVLSMLKR
25532	55900	A	25673	1	984	
25533	55901	A	25674	1	1181	MMAVSAPYVGDNIDDGGIYTQ SEHTISSDCVLDTAAMWTPLS AVIGCTTNPAQYPANAAEVYN KDGKLDLYGKVDGLHYFSDN KDVDGDQTYMRLGFKGETQVT DQLTGYGQWEYQIQGNSAENE NNSWTRVAFAGLKFQDVGSFD YGRNYGVVYDVTSWTDVLPEF GGDTYGSDFMQQRGNGFATY RNTDFFGLVDGLNFAVQYQGK NGNPSGESFTSGVTNNGRDALR QNGDGVGGSITYDYEGFGIGY TQTYNATRVGSLGWANKAQNF EAVAQYQDFGLRPSLAYLQSK GKNLGRGYDDEDILQICCMSDP TQNRQASAKLALPCQVALLSSA SPHHAFTPSTSIQPAHIIHSSPP PWASSHSISTHQHTQCSSSNT LAVH
25534	55902	A	25675	1	147	

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25535	55903	A	25676	683	947	QVRDSLQQGRERRIALSIGWLV WREGCQDQCELEAGGASALTR RGSCRELDPAFPATMLLFCPGC GNGLIVEDG\QRCHASTDAVPP
25536	55904	A	25677	12	393	RGSCRELEPAEFETMLLFCPGC GNGLIVEEGQRCH/RAVACNT\ CPYVHNITPQGNTIWKYPKLKE CGSDVLGGAAAWENVDSTAE SC\PKCEHPRAYFMQLQTRSAD EPMTTYFKCC\NAQCGRWRD
25537	55905	A	25678	234	567	YVDETDCCFENNRCCQPVNGA YSPAGLSRVAADASLTTPHAK* TLRSLTLHQHDKTRTELLNDVA GALALDDKLGRSTNQLSGGEW TPSLARPFLLLGPRKMRLPLH LPP
25538	55906	A	25679	1	794	HCDGKHFTGVGKIMSIGMQLQ DVAESTRLGPLSGEVRAGEILH LVGPNGAGKESLTGREWPEMP TVKGTIQFPGHPLEAWSAKK\L ALLRAYL\SQQQTPFPFPVWH YLTTLHQDPDKTRPELLNDVAGA LALDDKLGRSTNQLSGGEWQR VRLAAVVLQITPQANPAGQLLL LDEPMNSLDVAQQSALDKILSA LCQQGLAIVMSSHDLNHTLRH AHRAWLLKGGKMLASGRREE VLTPPNLAQAYGMNFRRLDIEG HRMLISTI
25539	55907	A	25680	12	414	RAAPSRNLPPRMPIIAPIAAR PIITAAAMYSRIFRFSMTVSSLF QLKRSSVGKLMFFRRHRQIDDR QNHEDGLQRNDQDVENGPRH IQDPL*PPRQETSNQNEQLSGV HVTEQSQTGWSFGQHAYPF
25540	55908	A	25681	568	724	RFSLGTVLDGIYPHQYDGYSR WSAKRYL*WRNL*SGTHRSC* VNNFTRSNKK

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25541	55909	A	25682	1	974	MNGKLQSSDVKNETPYNIPLLI NENVISSGISLISLWHTYADEHY RVIWPRDKKKPLIANSWVAVY TVTGCNSDRLNNIRTLRA\MA REFSIDVLDEMLQQFRVVPDR PEHKQLPQHELAERQEKISTWL ELMKADGINPEELLGN\SSAAA PR\AGKKRQPGSAKYLFT\DVN GETKTWTGQGRTPKPIAQALAE DCHGKPEYGS AVHGCRCDDGS AGNLCFDLNRHCGLGVRLRPR KINGDYRSRFCHAGETGVCAG AETTQMAESGVSGAGLAVRGE RDGKRSPLQIAIMMNGSSGQAI SSNVILQLFLVEVIKSLRMLYM
25542	55910	A	25683	1	1359	
25543	55911	A	25684	1	918	
25544	55912	A	25685	72	690	PAPVAGAHCPGLGHRSEHQEP QLRHVARWPSS*SWLCHGTFR KLLPGKKRRGGNKKF*GRRAR GVGCVVSRVWCGPACACSLRR WLAHTVHWVFTEAQSIKSHSS DMWPDGLALSPGCAMGPSGSC SRGKNVGGATKNFRGVHNIYC HKPIPTTQHESKYARQTTTEEC TQTSSHDFRTTFSAVMQQLQI ARNLVTHPKLVFMDEPTGGLD VSVQARLLDLLRGLVVELNLA VVIVTHDLGVARLLADRLLVM KQGQVVESGLTDRVLDDPHHP YTQLLVSSVLQN
25545	55913	A	25686	1334	1545	RSQSRLERSCSVTGSM*RVSPA RSFRITKRVLAARLAT*LPAS GRRTGVGVSDSEFPSELLSSSF TD
25546	55914	A	25687	1784	2125	WLQHIHPQLLRCPVLRAQNVW IRTLYDRH/RFVTRGTLGWIETG DF/DKVPPDLRFFAGGDRSI/RG YKYKSIAPKYANGLDIGKSPAA GAISPCLTFVMSARRGGHRGQS ASGCRA
25547	55915	A	25688	931	1213	NLHPAPAKRRAPARPQSRLAHR QRGRMRGAPRPFQRQIKLCY ARCTPTICPTKVKSRSNTVTSG* TWSPRQRAKWWKSAKPPSAGL TSSARHP
25548	55916	A	25689	999	1243	VDPVPWLPALDITSTAPARQF RKRIIASLMPT/WGTSLRRYSVP PRRSGWKRWRFPPTGSTTCRPP FPAVCSSVCRLPATW



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25549	55917	A	25690	1225	2341	ARTFRLSNFGGSTRARGVYWD PNSDLCPTLDFSYKMPLLNPL EQYYLVQGGFKRTDLNDTESD STTLVASRYWDLSSGWQRAIN LRWSLDHFTQGEITNTTMLFYF GVMISRTSRGGMLPTWGDSQ RYSIDYSNTAWGSDVDFSVFQA QNVWIRTLYDRHRFVTRGTLG WIETGDFDKVPPDLRFFAGGDR SIRGYQY\KSIGPKLPNGD\LKG ASKLITGSLEYQYNVTGKCTK WQFGEWLAPGEVRLAPGATLA TPELVASCSTEGNLGLAANFHA ELRARLPWHGGAMKPRPVHLN TWEGFYFDLQPDKV KALATAA AALGVERFVLDDGWFNARHH DRAGLGDWWDATKFPQGLG ELVAHVNPFFA
25550	55918	A	25691	45	233	SSYPRWWAAWWASTTARPSTR WRSSPR*SATTWASSPSPTSP*I HDRPGIGATHSSRFPLK
25551	55919	B	25692	1	558	
25552	55920	A	25693	324	657	
25553	55921	A	25694	831	1244	WQPGGR*WSRQRSADGTGPDD LAAAYFPGDRFYRN*PSERC*H RRG
25554	55922	A	25695	1	1215	
25555	55923	A	25696	1	840	
25556	55924	A	25697	1	1365	MPQNRGGFLDKKNPGAPLEGA VYVNCFTTRPGIGYEGRTAVFC GAAKVPPGLNYRGIGAFPGGNF ASKRSRGRNLAGARCLRFCPK\ WQ\NYSETASVQQN*SVLARA IERGINAPLA\SSCGRFFDAVPA ALGCAPATLSYKGEAACALEA LAASCHGVTHPVTMPRVDNQL DLATFWQQWLNWQAPVNQRA WAFHDA LAQGFAALMREQAT MRGITT LHPEGLERMSAGHES WLERRNGELGEGKGS KAYPTG DHKGADLYDDSNFLIQNIFVED TRGLLRQGREDLIERYKDPLNE NPKRCVEQLANWHKELEEYKK ASRIDIKPSREYASTIMNAIWTG EPSVIYGNVRNDGLIDNLPQGC CVEVACLVDANGIQPTKVGTLP SHLAAMMQTNINVQTLLTEAIL TENRDRVYHAAMMDPHTAAV LGIDEIYALVDDLIAAHGDWLP

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25557	55925	A	25698	1	950	MPDEENRFRNALKAVFSQLMTD ATLTPLFNYHYRISAPPGVNGL SMKRAVVVFSGGQDSTTCLVQ ALQQYDEVHCVTDFDYGQRHRA EIDVARELALKLGARAHKVLD VTLLNELAVSSLTRDSIPVPDYE PEADGIPNTFVPGRNIFLTLAA IYAYQVKAEAVITGVCETDFSG YPDCRDEFVKALNHAHKEKLD EDCKRRMYTNPLRVLD SKNPE VQALLNDAPALGDYLD EESRE HFAGLCKLLESAGIAYTVNQRL AVNPEFKADPVVDIYLVASGA DTQSAAMALAERLRDELPGVK LMTNHGGGNFKKQFARADKW GARVAVVLGESEVANGTAVVK DLRSGEQTAVAQDSVA AHLRT KEKDSVEIYENENDQVEAVKRF FAENGKALAVGVILGVGALIG WRYWNSHQVDSARSASLAYQ NAVTA VSEGKPD SIPAAEKFAA ENKNTYGALASLELAQQFVDK NELEKAAAQLQQGLADTSDEN LKAVINLRLARVQVQLKQADA ALKTL*IPD*RPDAGLRCKRSPR SPAVCTDRQNAHEIPRPD SHLM PERR*EAPALPDFLNPARAAG
25558	55926	A	25699	1	3314	MKISRLGEAPDYRFSLANERTF LAWIRTALGFLAAGVGLDQLA PDFATPVIRELLALLCLFSGGL AMYG YLRWLRNEKAMRLKED LPYTNSLLIISLILMVVAVIVMG LRAML MAMEPIWESDFHTLSY GFRPERSVHHAIRTVKLQLTDC GETRGRWVIEGDLSSYFDTVHH RLLMKAVRRRISDARFMTLLW KTIKAGHIDVEDKRAASEGV PQ NKIISPLLSNIMLNEFDQYLHER YLSGKARKDRWYWNN
25559	55927	A	25700	997	1716	PYLTA SSSAFQQLHLSGENHRD DGCAGYSRRTLAAQLQCHCEC DHNLPDTPRLPRSGVVL PARF PRPLHTLISALHRRVLRHARH ESSTLNPQRLPPAHRFFACQSR Y VGP AEYSYAVRSTDESG*A*W LRVPPNLIALTVQRSLPDALPA QNCPPCRSMLEPAPYILLGMLA TWPACPG\HEVG*SHSAHPDEP ETLQTVSR*YRRFGRPVH*SVH VVGRYPHQACQC YLSSTAE
25560	55928	A	25701	1	769	

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25561	55929	A	25702	1	3707	MVRSADVAGIAQAALPQSVVA WEYLVEDYDRIRNDIEAVLPEF ADYNQRIRHPGGFHLINAAAER RWMTPSGKANFITSKGLLEDPS SAFNSKLVMATVRSHDQYNTTI YGMDDRYRGVFGQRDGYRDN CEEIAQLAEDCGNLFVTVFRC PAGANLQGNRVHCIDDLGKD RFNDIRNVQAAELLAEMAISSA QRRMRAAKKVVRKKLTSGPAL PGKLADCTAQDLNRTEFLWK GEQNALLRGFPAVRLHSL
25562	55930	A	25703	1	369	LPSHGAGLGTCSLPCLSLPPTP WAPVQPEPPRRAPPPAPWRPVP LTTQGLRN/DEHRVQDWQAAP PAAPLKVCKYTNQHPVFSTRFV NAPIDTLYLAALVRTWRTFMSS SRIVNTPIGTLYLAQ
25563	55931	A	25704	1	444	MRLHSSALGRSMGLGAVEQGA ALVGEAPAAQEPTAGEGSGM AGCSPKACPAGRQLRPGPA\AA PSAGPPSPRPPGTPAGPQAPRAA PVPARASPSTPPCKLRERAAAF A/EPRKGLPQCSGGLKGSSAA KVGAQAEEAPRASESCDC
25564	55932	A	25705	1767	2130	YTGQLRRVYVWPQCCQPTCA ALDFSPSLSCLPA/AAGLRTYSQ PCLSLPPTPWAPVQPEPPQ*APP PAPRRP\AHRPPKG*GVQAHGA G\RQAAPPAAPVRDPLG\KPAGL LSLVGTWRTFMS
25565	55933	A	25706	654	832	RRCARFLAGP*LPSHGAGLGTC SPPCLSLPPTPWAPVRPEPPRA PPPAPRRPVLCVFS
25566	55934	B	25707	1	537	
25567	55935	A	25708	1	455	HCGSVIGGFLVSLTLRTKLRTL AVSVTALTVCLEFIPSDVRMR SVSSFWWVRSAGSRVKLQTF AVTVTALKAAASLELFVPPGLV VSLASGVKLQTAAAGK/RCLPV LRHAPALLSPWVVDGTGHRGA GGGAHRGGSGRPGAHGGGRL
25568	55936	A	25709	1	314	SACREVWRERHEREPGLRGAL AGQLEFRVGVGLVRPALGGAG QPGAALDFSPGLSCLPA/AAGL GTCSPCLSLPPPWAPVQPEPP RRAPPPVHGAQSHRPPKG

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25569	55937	A	25710	144	519	HPGQRLRRVYVWPQQCQPIGA ELDFSPSLSCLPA/AAGLGTCS PCLSLPPPWAPVQPEPPQRAPP PAPW/WLSPIDHPRAEECECTA QDWQAALPAAPVWDPLEMSG LFDRAEKRYIRSFARKDSM
25570	55938	A	25711	271	743	ARTWNVPKVCVRIKANSHSIFT GLSCLPAGQGSGPAARHA*ASD PLRGLLCGPSLLDE/PPPPAPWR PVPSTTQGLRSAGEQRGTGRQL HLSAAPVRDPRGEAIWAPESGR SAASILKPARPPAHREERTTPDA PP*EL*HSPRRSAASLREDPWLH S
25571	55939	A	25712	1043	1348	GPARNRAQRRRAGTAGGPITPS AAAGPGAKPLIARRRQGWPA PSAGPAKPTPTRISSWPASQPA AAVPARASPSTTLFKLREWAPA LASPERGSHSATVG
25572	55940	A	25713	22	226	NTRRWTEMTFDQVVRIFSIGNL QTVLQNRQPGGAIARCTGHIDP VTRFRPRAR*GSSHRNKA VDTQ RH
25573	55941	A	25714	166	714	
25574	55942	A	25715	1	462	

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25575	55943	A	25716	1	924	MFAIISYSSLA AVLTTATLTAAG IISFPVALCLVIGANLGSGLLAM LNNSAANAAARRVALGSLLFK LVGSLIILPFVHLLAETMGKLSL PKAELVIYFHVFNLVRCVLM PFVDPMARFCKTIIRDEPELDTQ LRPKHLDVSALDPTLALANAA RETCALATPWTDDGRKYAYSA ASGGRRSATKVMVVVTDGESH DGSMKKAVIDQCNHDNLRFGI AVLGYNRNALDTKNLIKEIKA IASIPTERYFFNVSDEAALLEKA GTLGEQIFSIEDMDLGDEVYTV GRPHPMIDPTLRNQLIADLGAK PQVRVLLLDVVIGFGATADPAA SLVSAWQKACAARLDNQPLYA IATVTGTERDPQCRSQIATLED AGIAVVSSLPEATLLAAALIHPL SPAAQQHTPSLLENVAVINIGLR SFALELQSASKPVVHYQWSPV AGQGWLANPELLEADADA EY AAVIDIDLADIKEPILCAPNDPD DARPLSAVQGEKIDEVFIGSCM TNIGHFRAAGKLLDAHKGQLPT RLWVAPTRMDAAQLTEEGYY SVFGKSGARVSSIPCAVPCVWA RVADGATVVSTSTRNFPNRLGT GANVFLASAELA AVALIGKLP TPEEYQTYVAQVDKTAVD TYR YLNFNQLSQYTEKADGLLKPRF RPWQRKILDTLATYHEQHRDEP GPGRERLRRMALPMEDEALVL
25576	55944	A	25717	1	417	MGVLNNWLSEESLWISRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLREFLARYER PMKNCWKILDIEETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRIAQSPAKSVWQP EY EVAEHEILLA FRALLASDSEFL PSAWQRFIQQLNYCSME EIDEL RWSLCTIAMNTAHLSEFCVLL AERLRWLQEENTGEIDEEELGS FLYAIAGNVFNFTILHLPVA RRPDICTQHNDQSRCEGYQILS DKRGHQHGGGITALYQCGNAD PRAKGERLFFDAPA *CASSARV CVLSLAGASKKSRSPFARGSAL PHWYRAVMPPPCW

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25577	55945	A	25718	1680	2058	YRAYAPAFPLPLSPSCPPLWRHC GSGRGENRRRDSSAHGPYAPRR QPDMPAHRQS*SFV/PASCSAC MDEPHKRLTVTAGTECGTSASS AALRAILKPCSSVCSSFFLLLLL PPPPSSSSSSFFFLF
25578	55946	A	25719	1115	3549	NPDRLLQLNLILETSK*QQMGD TRKKRS/NLTVAPIISPLKRYEQ HTELSRHINVVNLDGRNRRQQL ILDQGKSSQRNIYLSHVAQKIPG RATYALSHSVDMITIQLGTLLR CAPPHRRRYAGRFFCRSAGNFL NVQGFDAVLVAVKHIDLLCLT IAPSLIVCTRLRSPWCGALRRCS TDGRSDLASSGVMFSIDTESAL TRWCLSLPHGALGKIIAEGLLS VIASKASAIVTTVAVVPVTRRSS LVNWHSGGSLWRCNRTDERD QQASQGTTRMGRTQRNYSPTR QAIHKTGSPTMATTSNTEOPPH EKPNTLTQHPRNPDRTIHPKAT HNELTQDTPQRDAKQNGEKTQ RKKNCLSELNDAEDAERFQD RLMLKLQVTTKPCSMTRLRDC AGIWSAANRWSGIGIDRMIMLF TNSHTIATLFSSRRCABRNKFKH LMNEAVRLLRSSFRRKSVLRRD ASFHDNQRVHSLQLKERKKSL IHGRICAAKASLFQTRRYRWQK APLFSAQFRGRNRAVTHNRWV TTTTAIERTRARGLRPNSSGRGF HSSPAWQLRHRKCRRRCARRYH TVYWKRRRSVARASTVVSGR TSRRGENRRRDSSAIAHMLHAA KQTCLRIAVMIIRAASCSACMD EPPSDLTVTAGTDAGLAPAGYA LNERRDLLHALTKSTALRTAHR GPNRTGWLNRRIVRFVMTALF
25579	55947	A	25720	606	1562	
25580	55948	A	25721	688	762	
25581	55949	A	25722	492	737	SLPSGATLPPPALLLASAPDTA* WRCRER*YHLPAYAALSPAVA HRASLYSTLPSSVPWRRQCAGF RARRSPEQAWAYPAR

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25582	55950	A	25723	335	903	WVHDLPARKGSSARNIMLKSA PLRGHTRTRRKMMNIIEANVAT PDARVAITIA RFNN FINDS LLEG AIDALKRIGQVKDENITVVWVP GAYELPLAAGALAKTGKYDAG IALGTGIRGGTAHF EYVAGGAS NGLAHVGQDSEMPVAFGVLT ESI/EQAIERAGTKVGNKGAEA ALTALEMINV LKA IKA
25583	55951	A	25724	3644	4545	SEAWPWRTAGTCLLC LNTT/AH VDKAIESRTVVADVLAKFENAL TGKLLTVSFQAHEAVIHHHPA PEENLQVLAALRLQYLQGDYT LHAAIPPLEEVYSLQRLKARISQ STKTFTPCERLEKRRTSFLEGT RRSFRTGSSVVRQKVEEQMLD MWIKEEVSSARASIIDKWRKFQ GMNQEQA MAKYMALIKEWPG YGSTLFDVECKEGGFPQELWL GVSADAVSVYKRGEGRPLEVF QYEHILSFGAPLANTYKIVVDE RELLFETSEVVDVAKLMKAYIS MIVKKRYSTTRSASSQGSSR
25584	55952	A	25725	1	735	
25585	55953	A	25726	147	504	STCPASAPPRPSAGPRILSGSSAS GSPLGSSSASSPAVHKG*RFWL TG*CGP*VSAGNK\LFERWDGS VQSIPLQILESQGSKNLEVF FRG WMVAMDNR FVGLKGDSQQLS GQRIFKLG
25586	55954	A	25727	1	639	
25587	55955	A	25728	1	1247	

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25588	55956	A	25729	1	2376	MAEVEEKKQRIFRKFTYRGVD LGQLLDMSFEQLRQLYGARQL RRLNHGLWRNAEAQAFAAE APMLGQEGGADHREAGSGEDA PAGYDHPSQDGGQGGRLQRQ DLQPGGDQAGDDRPRPGRVLH HLQAQRGKKPM/ISTVTFGQ*P DPPLRAGQRL*RC/RLIYGRGK CWALSGNP/RSGKTTLLKSISAR LTPQQGEIHYENRSLYAMSEAD RRLLRTEWGVVHQHPLDGLR RQVSAGGNIGERLMTGARHY GDIRATAQKWLEEVEIPANRID DLPTTFLRATHTVKMFSIPGYSS PGQLDPETNINIGTSYLQYVY QQFGNNRIFSSAAYNAGPGRVA TAIVLTLYIIMVGFFATSGELT YEVWIGFFASAFKVFLLALF SILIHAWIGMWQVLT DYVKPLA LRLMLQLVIVVALVYVYIGFV VVWGMRAALQISQSGQTCALL SKVFPTRSHTVSAQGGITVALG NTHEDNWEWHMYDTVKGSDY IDAGRKRQEEDWNSGVGDPS DAGDRKHQLKAAQLRPEAIKQ RRIANRLKRRTQFPRHLKGFVN TLKPIHGGCSVGTKCPQMASLP EGLHHPVKLVFLGKPGCLLTDR PLKGPNTAKPVAVDLNASATAI TSYSLYGGSMILLFLASTLYHAI PHQRAKMWLKKFDHCAIYLLI AGTYTPFLLVGLDSPLARGLMI
25589	55957	A	25730	219	652	SASWREAICLSRCRLPRSATAR GAGRGGCGLADRRASRQGKNL EAESAQEQNGHQHRIHESQHPC QGGAPVSHHQA AAVRLRESIQ GAAEKR*PTGDVIHPGPVSGG /LK*YPSIPTCLLTTRTASLLKPP GVRTSVCWQQLPR
25590	55958	A	25731	1902	2100	RKFFSSSSGRS*PVRCSKL*SSID A*PLERIKRSRSYQVGSVGLCL RKSFHSTSAISAMPIGAPG
25591	55959	A	25732	3223	3669	



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25592	55960	A	25733	1	4325	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKECERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLKKRWFLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERA
25593	55961	A	25734	501	2871	TGCCCLRKTDCRRRESARGVH AVYRRICARSMILLYRESVRPKA VTARVAVEAGIADYWYKYVG LNGAIVGMTTFGESAPAELLFE EFGFTVDNPLASRAVRLRPFN NDQVEAAVGWKLAVRHNPG TALILSRQNLAQVERTPDQVKE IARGGYVLKDSGGKPDIIILATG SEMEITLQAAEKLAGEGRNVR VVSLPSTDIFDAQDEEYRESVLP SNVAARVAVEAGIADYWYKY VGLKGAIVGMTGYGESAPADK LFPFFGFTAENIVAKAHKVLGV KAGSHIPRKKYDVP GKKSFSVP KYSTIGSPSPERPVSITIPNSFVI ITANRVLHCNADTPEEMHHWIT LLQRSKGDTRVEGQEFIVVEKL IRGLAMEDSRNMFALFEYNH VDKAIESRTVVADVLAKFEKEP VGKHLPTYDGGQIAMGLESTAS VTRKHSSPSSLQNALSCETATSL IERRVRMALGTGDRRLNTWL ARLPMEAKEKDEWRYWQADL LLERGAEAEKEILHQLMQQR GFYPMVAAQRIGEEYELKIDKA PQNVDSALTQGP EMARVRELM YWNLDNTARSEWANLLKNKS KPDRAHLPGYASTTQWWILSV QATIAGNLGDHLKERFPLANN DLSKRYTSGKKIPQSYAMAIAR QKSAWNPVKVSPVGASGLMQI MPGTATHTVKMFSIPGYSSPGQ
25594	55962	A	25735	1	1195	

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25595	55963	A	25736	1931	2676	FCGNTHQTYLGWVGGVANSEA *GEKWGTPDLVG/AERTETIQR LLGVCPEQGEGKIYIDGKQVDI RNCQQAIAQGAMVPEDRKRD GIVPMAVVGKNITLAALNKFTG GISQLDDAAEQKCILESIQQLKV KTSSPDLAIGRLSGGNQQAAIL ARCLLLNPRILILDEPTRGIDIGA KYEIYKLINQLVQQGIAVIVISS ELPEVLGLSDRVLVMHEGKLLK ANLINHNLTEQVMEAAALRSE HHVEKQSV
25596	55964	A	25737	1491	1667	TNGQWRAFYC*MRSGRNIRRR GEDISGGAGVSPRESPE*REVPE MGPGGAANRGTKRV
25597	55965	A	25738	419	823	VTLVAITRPIHVNRRLQYLVAIS LNETFGPSCCKPSRSPCSSLSTCC WNAGVMHKK*VQGGRLCSYR N*SICLVVISPVVMGKRCIS*RC TAVLAALTVTPSGVVAHHSV MLPRLPMKRSSIVPLPSNWRTS
25598	55966	A	25739	591	968	VKQCKQADEH*EQSLIPLERRR TTPLSVPQL/GKALTTVSFCASG GTSVNSLSHTS*ECMASAVAVK FTFPNLAVNFCTAAMAGPKVA LTSTLARIQAGSLARTGGRAYR WSRSTMLAKSFWCLMAL
25599	55967	A	25740	764	1005	QARPRAPRRAPYPILIRSSIITLIY /DGQRLGHLDDGTDSDWNHVPT LNGQCTLVLIHEYVDTRGPEIK TILVISWWNILVFH
25600	55968	A	25741	463	786	
25601	55969	A	25742	3	646	
25602	55970	A	25743	1	3008	MTMLQIVGALILLIAGFAILRLL FRALISTASALAGLILLCLFGPA LLAGYITERITRLFHIRWLAGVF LTIAGMIISFMWGLDGKHIALE AHTFDSVKFILTALAGLLAV PLQIKNIQQNGITPEDISKEINGY YCCFYTAFFLMACSDQRRLRG AMDKRYKFILVGFGEVVFVFNLE SLDSGKKIHLRRSHEEVMGSV MRTGTIDKGILPFIHHTRGNEIL FIPALFILFSLGGAVFGMGEEAV AFAIHIA

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25603	55971	A	25744	2	3494	TITNLRPAAPGICEMAQGLSAG GEYTGASIFVAEYSPDRRRGFM GSWDLRSIAEIELGAGGVGLIS TIVGEANFLDWGWRIPFFIALPL GIIGLYLRHALEDTPAFQQHVD KLEQGDREGLQDGPVSLKEIA TKYWRSLLTCIGLVIA TNVTYY MLLTYPSPSYLSHNLHYSEDHG ALIIAIMIGMLFVQPVMGLLSD RFGRRPFVLLGSVALFVLAIPAF ILINSNVIGLNLLPAMFPTHIRYS ALLEMKN
25604	55972	A	25745	1	277	
25605	55973	A	25746	902	1006	
25606	55974	A	25747	2	1265	
25607	55975	A	25748	409	525	
25608	55976	A	25749	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL
25609	55977	A	25750	3	71	
25610	55978	A	25751	1	1212	
25611	55979	A	25752	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVDIVWNATAAFIAVIII SLLDESGLFEWAALHVLRWG YGPGRLPFNRI GLIRTRIRQR LLFGLVTFILLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25612	55980	A	25753	5	402	EIFSVMWIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVTFLFHRI
25613	55981	A	25754	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25614	55982	A	25755	1	912	

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25615	55983	A	25756	1	1857	MRVCARACVTRTRTRMCVYAH TCVVCVPTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIAVYQDTPVPNAAT AISELNALAVKGVILTGDNPRA AAAIAAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25616	55984	A	25757	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTA TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVYVFDADYL YELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHFPPLSCVQSDPAEPYLAR CGYAGNFMESEPRSGLRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHSGSFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHFRDVRQL
25617	55985	A	25758	16	543	
25618	55986	A	25759	1	3387	

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25619	55987	A	25760	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTTPFGVC TSASMNPVLTLLRIRTRVTGEV AAIKPFSMANAPTDPDILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25620	55988	A	25761	905	4762	PPHNWMPSNATPGIAFWCAY GAI/LPGDAPVPVDDYRKVVR KDTKGLIARWKYFWMVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTGDLGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGSL ALGGALGHIAVLLRQEFLLVIM GGVFVVTLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25621	55989	A	25762	1	1448	MCHVLLAGRQRRTAGPEHALT PPECSSAAIGPAVYKWAHATG VMIPDRPRSPHAGAEERHWHH PQPELISQRLGSFSSGPTKYIHEF QYLTLSTYNLTWSDLNVLTFILP LDEWERVFSLAQSHTDNCRLH KPDQLQEGIREVPQEDPQWNYQ ENSPGIARRDYMISCLVEGLKK AAYKAINYDKLKETTQGTDKN PAQSMACLAATMRHFAALDPE ALAPHRDYNHGIKLTCKTIRSSI DISREIRAPRECRSTEMASWHPP ADLTECPVESGYSVLSGRITDCQ YSHTVRRACLTITDSRPAVRQL LKIREVQLLSLLRGCVRSSRSGS INAQYCRCLERVVTLPPFFDSGPS LMNHAPHLYFAWQQQLVEKSQL MLRLATEEQWDELIASEMAYV NAVQEIAHLTEEVDPTTMQEQ LRPMLRLILDNESKVKQVLQIR Q/DGLAKLVEQLRHLSKKHHLD TDSTSSSLPGVRTPYSPIRGEE

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25622	55990	A	25763	1029	1665	RPESISSVASKTRLGRSFHGAAR RTREYHSSTCNASIAAAATV\A AQGHPTTSTPPASVDTTATNT QTPAVTAPAPAVDPQNAVVS PSQANVDTAATPAPTAATTPDG AAPLPTDQAGVTPVADPNAL VMNFTADCWLEVTDATGKKLF SGMQRKDGNLNLTGQAPYKLL IGAPAAVQIQYQGKPVDLRFIR TNQVARLTLNAEQSPAQ
25623	55991	A	25764	658	1307	SNRLYTDVESINEIEGIYMKLRF ISSALAAALFAATGSYAAVVDG GTIHFEGELVNAACSVNTDSAD QVVTLGQYRTDIFNAVGNLSAL IPFTIQLNDCDPVVAANAFAF SGQADAINDNLLAIASSTNTTT ATGVGIEILDNTSAILKPDGNSF STN\QNLIPGT\NVLHGLAFRAR CVSTANLRVPRPICFDPGSSYQA NTIGSGRCADCQPDAA
25624	55992	A	25765	167	232	
25625	55993	A	25766	441	686	
25626	55994	A	25767	206	331	
25627	55995	A	25768	674	900	VVPICTMLEEALERQNLASLC G*LKKACGRSWQTSPIKRSLNG AKFSRTSIIMGFITAELWSGWEI WSARNVTS
25628	55996	A	25769	41	222	
25629	55997	A	25770	17	525	ESLECSGPSWNASGTQSGFYCH RIAPILPEKRLARMVEKTWGLG LRRRTGFRRQNLGGGTGTLVE CTSENS\KPSKSSFRKQRRGQRR EGH*SLRR*IRRERTERMQASR VTWNSFPQVPAKKPSSLSESG *P*ATNYTREQDSMWNCVHHY WQPPTSVSRLVHLNSG
25630	55998	A	25771	698	1051	PYLRIRLTALISRSSTVMRILFAI SKRPIT*PKRPKPTMTWGLSSL THGFSSSSGPLNWRDLSLSTSF ISNGVVIMESVTVTSNNAIWSPS SSVAAVNTSRTPEAAIKRNTGR SK
25631	55999	A	25772	1	2204	

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25632	56000	A	25773	3	891	RYRNQDDHELQIHTGTRFYVEL CGFRVNPPWLATDVTHAAMAL LTLVTTGLHIVGEWGKHATPPV PYSICSNPPRRAAYITVWRNRP TLGDHLFSIAYPRGLRYDMGG GEGTAWANVRQALARTTGR AQHWTKDNAKSSREARHPRQN KTKTHLGKPVLRWV/DPSFDQS KYDSIVWNPI/TYYVPKPTQV GQKV/LDKILNYTNTEMKEAIA H/DTSKEGLQFYEVVPVALVVA GTQMATGLRTMDTRLFYEGELI DAAPNKPVIKVVVRQGEEDWP SKGDAGDGEKVPSSLSESG
25633	56001	A	25774	1	285	
25634	56002	A	25775	1	302	SFSSFTQRTASVIISSTSTQSRLA TSPILAIARARTSRRCEPKPQLG YPDSAAHVFFQDRATKYVINR NSKKP*ICSACRSTVSTRQHRR WRGSLQPLSQ
25635	56003	A	25776	307	473	
25636	56004	B	25777	67	809	
25637	56005	A	25778	44	301	
25638	56006	A	25779	1	1519	MINRLQHTVYTHKWNSYRTEP DRRH TALRNSFCLVRLNDSSHS RSLDSKQGHTEITFAATEHPPSP VSLRIHDVAFDDGRQTSRAPCF NLEQPGKLDCTKRLISDCWVM HPGESWHGFKDIPDNWSMLDPI KISILAPGMGEDGELEETGVPA ALVTAWLGRHGIVPTRTTDFQI MFLFSMGVTRGKWGTLVNTLC SFKRHYDANTPLAQVMPELVE QYPDTYANMGIHDLGDTMFA WLKENYSGARLNEAYS/GLPSII ERHVVD AQGYRGGGMLCSCS NFCVSLLR IQAS
25639	56007	A	25780	461	789	HHVLSELQQLYTAYRSVDHIID HSLAIARAPQRRRCPEKPQLGY PDSLQHVFFQDRATKYVINGTS KKP*ICSACRSTVTHGHTDAGE EVWNPFAVLVPSGKDARVWG
25640	56008	B	25781	1	990	
25641	56009	A	25782	1	3066	
25642	56010	A	25783	583	904	WGIRTTDFQIMFLFSMGVTRGK WGTLVNTLCSFKRHYDANTPL AQVMPELVEQYPGR*FTGVRK KSNN*FRQFGGVD TAGNNLSEI FSASASAEIFPANSFCNRLA

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25643	56011	A	25784	331	660	TGIQLPGAP*SQPWSTRRAVV RPLYRVN*AVP*NR*VIRSKRA MPKRTDIKSILILGAGPIVIGQRL GWRDSDGVRLCGVLGSQENVC ELDEKGEERWSISGTSSEFTR
25644	56012	A	25785	1	798	MSDAEDGARTTLGSGNAVERL ADALSQQNVTVIKSTSLDDGFA ILSSNEAIDCLMFSYQMEHPDE HQNVRQLIGKLHERQLNVPVFL LGDREKALAAMDRLLELVD\ EFAW\LEDTADFIAG\RAVAAM TRYRQQLPPLFSALMKYSDI/Q SEYSWAAPGHQGGVGF\TKTPA GRFYHDYYRLLRVAWVLHKTE CRLINFETPIFGNSFRYDIEVSN ESPDEEVKLRHHLARCMKNF KTDIYFVSTFEPSTKSVDLLTVE TFAGT
25645	56013	A	25786	211	414	RVCECIQLRRIEIFRFMISSQPNL PEDLHPQIIAKPSQKRLIEQ*SSK LTVTKARRQGSRYKSSRFFS
25646	56014	A	25787	1694	4974	LSLLSAK/PVYVMVPSRNRYGIG PI/YPQEMQPETLQKKISE/SPLT KDKAGQKPSYCVV/TNCTYDG VCYNAKEAQD/LLEKTSDDLHF DEAWYG/YARFNPIYADHYAM RG/EPGDHNGPTASYIHVREGV GRLNFFRFNQAYMMH/ATTSPL YAICASNDVAV/SMMDGNSGLS LTQEDCWVMHPGESW/HGFKD IPDNWSMLDPIK/VSILAPGMGE DGELEE/TGVPAALYSNLCLSSG TTGLSTEALLE



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25647	56015	A	25788	1	1709	MSKPKYPFEKRLEVNNHYFTT DDGYRIISARFGVPRQTQVRTWV ALYEKHGEKGLIPKPKGVSDAP ELRIKVVKAIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK LSASLTSMRTLKSVFSEIYHENR GRYGYRRVTLSLHREGKQINH KAVQRLMGTLSLKAAIKVKRY RSYRGEVGGTAPNVLQRDFKA TRPNEKWVTDVTEFAVNGRKL YLSPPVIDLFNNEVISYSLSERPV MNMVENMLDQAFKKNPHEH PVLHSDQGWQYRMRRYQNILK EHGIKQSMSRKGNCLDNAVVE CFFGTLKSECFYLDEFSNISELK DAVTEYIEYYNSRRISLKLKGL TPIEYRNQTYMPRVNCPLFDL RIPDIGGVVRARAIKLLNDTD MAIIDKRRPRANVSQVMHIIGD VAGRDCVLVDDMIDTGGTLCK AAEALKERGA KR VFAYATHPIF SGNAANNLRNSVIDEVV/DLRY HSAER*NQITAERAYSDPVRKI
25648	56016	A	25789	2902	3271	SSAARHCAGCGDVRSVCRSGR ADAPRMHPGESWHGFKDIPDN WSMLDPIKISILAPGMGEDGE/P TRTTDFQIMFLFSMGVTRGKW GTLVNTLCSFKRHYDANTPLA QVMPELVEQYPAFVINQ
25649	56017	A	25790	185	663	SPVPSSRPSTRHRLPDGSSSSQFS SAIAARKVVNSCILCSKICQN*F NRRAASPLKRLP*SGASGMITP NQPAPAQ/PAK*LYTRLDEVKP* *KITHGNGVSFCPTG*A*RTGIS ASSRDLEVQSKKRSFPALNWPA VYCCSALGSAPKCKPIPLRAT V

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25650	56018	A	25791	684	4208	NGLFWLFQPWLFADETRRRLE ERFRDRYQIIHHSSQVCHSDQA VYVLTQERVNERDDIVIDIDLFV IDEFYKLAFRQLKSGDIDHQDE RVIELNIALSKLLKVSQRQFYLTG PFVNSIRGLEKLGYPHTFVSTDF NTVALDVKTSASKRMTTKPSS KRWGKSRTCVDADHIKNGIGL HFGALPRALQQYTADQFNAGK LRFLCTSTIIEGVNTIAKNVVIY DNRASTRISADIINSVICGLN TLKSFDTRWALL
25651	56019	A	25792	1	896	
25652	56020	A	25793	231	721	IITAEGRSREQQLAIL\PLNLAD MRQLQQHSQTRLADTAADGL RHFTAQQRLMPLQLQAIFVTGQ RQLMLQRVGY/R/LHGSPWRKA QTHLPVPGSTPEYRRSDPHGPA LTGCSSHHNPVRARRGMTIAQL AANPDKEYRARSFAIARSRPLA SRSGYETVTPGC
25653	56021	A	25794	1	933	MLEAAVCLCVFVSCSLAEGRA CCRVAVSIPVSVRARIHLLSDH LGRFREPKSIPRKDAQMDTFRT MVREPATFLDQVDGLQQSDDIL RLLPPELATLGITELEYEFYRRL VEKQLLTYRLHGESWREKVIER PVVHKDYDEQPRGPFIVCVDT GSMGGFNEQCAKAFCLALMLI AIANKWRCY\IMLSS\TEIVRYE LSGPQGIEQAIRFLSQQFRGGTD LASCFAIMERLQSREWFDADA VVISDFIAQRLPDDVTSKVKE QRVHQHRFHAVAMSAHGKPGI MRIFDHIWRFDTGMRSLRLRR
25654	56022	C	25795	83	1108	
25655	56023	A	25796	1	747	

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25656	56024	A	25797	25	1741	IMERLKRMSVFAKVVEFGSFTA AARQLQMSVSSISQTVSKLEDE LQVKLLNRSTRSIGLTEAGRIYY QGCRRMLHEVQDV\HEHLYAL NNTPIGTLRIGCSSTMAQNVLA GLTAKMLKEYPGLSVNLVTGIP APDLIADGLDVVIRVGALQDSS LFSRRLGAMPVVCAAKSYLT QYGIPEKPADLSSHSWLEYSVR TDNEFEL\IAPEGISTRILIPQGRF VTNDPMTLVRWLTAGAGIAYV PLMWVINEINRGELEILLPRYQS DPRPVYALYTEKDKLPLKVQV VINSLTDFVETPTPLSSLTSLPT IEICCMVSIPGTNQRLRPFTGFA THRLQSDLLLQVMTISRGRFSR SARFNGPTPSGRRLIRVIISTESG SRSSNPRTTGCFEEHCDHYRAII DSADGLPMVVYNIPALSGVKLT LDQINTLVTLPGVGALKQTSGD LYQMEQIRREHPDLVLYNGYD EIFASGLLAGADGGIGSTYNIM GWRYQGIVKALKEGDIQTAQK LQTECNKVIDLLIKTGVRGLK TVLHYMDVVSVP LCRKPF GPV DEKYLPELKALAAQQLMQERG
25657	56025	A	25798	1	1005	

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25658	56026	A	25799	1	2392	MEMVAASKMRKSQDRMAASR PYAETMRKVIGHLAHGNLEYK HPYLEDRDVKRVGYLVVSTDR GLCGGLNINLFKKLLAEMKTW TDKGVQCDLAMIGSKGVFFNS VGGNVVAQVTGMGDNPSLSEL IGPVKVMLQAYDEGRLDKLYI VSNKFINTMSQVPTISQLPLPA SDDDDLKHKSWDYLYEPDPKA LLEQCSCMLRSPA WGITSTDTT RARTDLACPIWLLDPYPKLMG NAPKALASVDKRGVPVNTILVS ALVTALCVLINYLAPESAFGLL MALVVSALVINWAMISLAHMK FRRAKQEQGVVTRFPALLYPLG NWICLLFMAAVLVIMLMTPGM AISVYLIPPLQTNTFNSTTIAMA DYQMESLSAEINFAAAKLARA CADEWTARTPEKPRYVAGVLG PTNRTASISPDVNDPAFRNITFD GLVAA YRESTKALVEGGADLIL IETVFDTLNAKAAVFAVKTEFE ALGVELPIMISGTITDASGRTLS GQTTEAFYNSLRHAEALTFGLN CALGPDEL RQYVQELSRIAECY VTAHPNAGLPNAFGEYDL DAD TMAKQIREWAQAGFLNIVRGC CGTTPQHIAEMSPGRKRLTRAE SSSV PSTLP GKAWLEHALPLIAE QL/QGRRSAVFIPFAGVTQTWD DYTAKTAAVLAPLGVSVTGIHS VVDPVAAIENAEIVIVGGGNTF
25659	56027	A	25800	412	1115	LAGEVMDLLLLSNSTLPGKAW LEHALPLIAEQLQGRRSAVFIPF AGVTQTWDDYTAKTVAVLAPL GISVTGIHSVVDPVAAIENAEIVI VGGGNTFQLLKQCRERGLLAPI TDVVKRGALYIGWSAGANLAC PTIRTTNDMPIVDPQGF DALNLF PLQINPHFTNALPEGHKGD PRL FR\IRELLVVAPELTIIGLPEGNW ITVSKGHATLGGPNTTYVFKAG EEAVPLEAGHRF
25660	56028	A	25801	1	360	MDHAIAGIAVQFRGGNLLRFK AFQQRVKYRMCQAERAINRLF NIAVKRLTG NRLLDDKSKQHIDI AVDIPKWS DHLHIIRRKHHDP QDSGTHLPAVADDGFR TSVRN RSA*HIRYLTRC*KALNRNKLPP RN*TAIPAMA

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25661	56029	A	25802	1032	1233	LVQFLRICFHILQRF/LPSH*RQK DESLRALPVSFLCWRTSDDFPA DISYQNYR*YNREPYLPRPDSG
25662	56030	A	25803	1	1394	MTRDGLANKALAVARTLADSP EIRQGLQKKPQESGIQAI AEAVR KRNDLLFIVVTDMQSLRYSHPE AQRIGQPFKGDDILKALNGEEN VAINRGFLAQALRVFTPIYDEN HKQIGVINDSRWSIWSVLFGM LVGLIGTCILVKVLKKILFGLPEP YEISTLFEQRQAMLQSIKEGVV AVDDRGEVTLINDAAQELLNY RKSQDDEKLSTLSHSWSQVVD VSEVLRDGTTPRRDEEITIKDRLL LINTVPVRSNGVIGAISTFRDKT EVRKLMQRLDGLVNYADALRE RSRLEHILHNQRPVFMKLHHR MLRHFIAASVIVLTSSFLIFELV ASDRAMSAYLRYIVQKADSSFL YDKYQNQSIAAHVMRALAAEQ SEVSPEQRRACEAFESANNTH GLNLTAHK/SRAYAAHYKPHPL TATQLWKIRSTITRF*SGSGRQP PPG*LRFRSWDGRREISLLSRSL
25663	56031	A	25804	3	219	
25664	56032	A	25805	14	265	
25665	56033	A	25806	744	1566	FASWLRVFSITNCAAPVTSESC ALDLGSAEAKAWIGVENPHRA DVLTELRRSTVARVCTGRAGPR PRTQALLRFLADHSRSKDTVLK EVPEEWVKAQGLLEVRSEISDK NLYLTRPDMGRRLLCAEAVEAL KAQCVANPDVQVVISDGLSTD AITVNYEEILPPLMAGLKQAGL KVGTPFFVRYGRVKIEDQIGEIL GAKVVILLVGERPGLGQSESLS CYAVYSPRMATTVEADRTCIY NIHQGGTPPVEAAAVIVDLAKR MLEQKAFGINMTR
25666	56034	A	25807	596	745	
25667	56035	A	25808	151	660	STTERLGDDFVRAANIILHCEG KVVVSGIGKSGHIGKIAATLA STGTPAFFVHPAEALHGD LGMI ESRDVMLFISYSGGAKELDLIIP RLEDKSIALAPNSRTVIT*CWFS AGDGGLPGPDYGGQDFAAHPAG AGALYKCRDLINDNILRTVSCQ SHDDGDIRGMAFARQ
25668	56036	A	25809	314	583	
25669	56037	A	25810	1	2982	

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25670	56038	A	25811	120	790	EGLKTKGEKASPPSCLSFCKNE FVISSTDYALSQSQSGGVMHRQ SFFLVPLICLSSALWAAPATVN VEVLQDKLDHPWALAFDPNH GMLITLRGGELRHWQAGKGLS APLSGVPDVWAHGQGGLLDVV *APDFAQSRRJWLSYSEVGDDG KAGTAVGYGRLSDDL SKVTDF RAVFRQMPKLSTGNHFGGRLV FDGKG YLFIALGENNQRP TAQD HRVPSWYK
25671	56039	A	25812	707	1141	ASHTATSPRPVRLSSSIASITLAV NATCGMASSRRIR*CTLF SKRA PSAPAGWERAKSSSLNPRACMT AIASASPIIRVLT VLEV GAKCIG QGSRSDESTLSPFIKMVPPNSLT TALAVIPPFSLSDTLPEVLISLSLI YNTLF
25672	56040	A	25813	215	2160	EINSITRSLSIIPRSPCSASAGWT KKAGVPVLASVAAIFLPMWPD LPIPETTTLP SQCKMILAARTKS SPR/RSNIMTHIRIEKGTGGWGG PLELKATPGKKIVYITAGTRPAI VDKLAQLTGWQAIDGFKEGEP AEAEIGVAVIDCGGTLRCGIYP KRRIPTINIHSTGKSGPLAQYIVE DIYVSGGKEENITVVG DATPQP SFVGPDYDTSEKLMIVRKKPIG VQMLYQVGTVSMMLYTRTIIQT KMTPTIVTISHSVRNAGDSFFS IASNQMPPTAKKIEPLAISLLS AEAPTRLSELKARIGEP RWSIEA IKPMPISTHKPNMQAITPPARRA ILSPCACESRSRQEP CPPGCHCS CPNHSCRSRLKGVLSMEQYLL QQKHVGTTPGPFRPPDTNQPCW KTKPSQREEYTRRVGFTGHSNQ GAKIIRTHIICRRRTSFALERPGD GFQAVVGGTVLMGLPRTKNVG LPVTILGRVHRRSSERFPRTSES AINRKDAGPKDPVRQRLAYKK HPMERRHGHV VARTFGRAIPT LGPHRTVLSTRFQVAKNPLGPI GPSPLAVLTWTVPRPKNGRRG GKQRARIICQSRREASCNNVCL ARSSGVFKGFSPVSSSGEHTGN KYSAYSFSLCPLFVFLPLSGRLL

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25673	56041	A	25814	11	613	RLSSVFVSKSLASWRSCNCSFS GPLVRLTIRP\LSPPDVRLLLSPS VVHAYNCPHQETQRHHTHHLT P/RLPNHGQIAISAMVYSSPATN/ SMLRQLLIQHVEQIGSVPLVMD AISLVEAHD/RSAAG*SRPLY*R AN*SSRY*VSYARKRVRQAKSR /HGKPSKKVLAKRAVPNRVCRC CNRVKRRCICQPKRRKCMTLPV RATR
25674	56042	B	25815	1	1920	
25675	56043	A	25816	247	1182	EAVMRQTKTGILLANLGTDPDAP TPEAVKRYLKQFLSDRRVVDTS RLLWWPLLRGVILPLRSRPAK LYASVWMEG\GSPLMVYSRQQ QQALAQRLPEMPVALGMSYGS PSLESAVDELLAEHVDHIVVLP LYPQFSCSTVGAVWDELARILA RKRSIPGISFIRDYADNHDYINA LANSVRASFAGHGEPLDLLLSY HGIPQRYADEGDSLRELYAVA NPNPGPGMGVLLAYMFFGRGS AKQSAGGSGLDGLLRTPPITP GGYFSVFVWKSLSWRSCNCS FSGPLVGLTIRPRFTAGRSPTSF AQRCTCL
25676	56044	B	25817	1	651	
25677	56045	A	25818	1	1647	
25678	56046	A	25819	1	1506	

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25679	56047	A	25820	645	2161	LDRCALNVTAQPSIECQVANAC LSPKGEFEYLQIDAPTPQALLSE IEKCWHRHRNVWPDHTINLAL AIHGQVDPVTGVSQTMPQAPW TTPVEVKYLLEEKLGIRVMVDN DCQLHYCKTAILNWSRKMALS RQKFTFERLRRFTLPEGKKQTF LWDADVTTLACRATSGAKAFV FQSVYAGKTLRMTIGNINDWKI DDARAEARRLQTLIDTGIDPRIA KAVKIAEAESLQAESRKTkVTF SVAWEDYLQELRTGISAKTKRP YSTRYIADHINLSSRGGESPGLG LLLAFTLFGKGMSKRSAPGAMI IHFLGGIHEL YFPYVLMKPLTII AMIAGGMSGTWMFNLLDGGGL VAGPSPGSIFAYLALTPKGSFLA TIAGVTVGTLVSFAITSLILKME KTVETESEDEFAQSANAVKAM KQEGAFSLSRVKRIAFVCDAG MGSSAMGATTFRKRLEKAGL AIEVKHYAIENVPADADIVVTH ASLEGRVKRVTDKPLYGPAVV
25680	56048	A	25821	2	341	
25681	56049	A	25822	218	469	LICAQGRRSPSRESTRQPKVLT ACHNGSVSVVVLSPNSLYIEVV VPS*CNAATGPVVTCLYKGFQ PILILLVTSTRVSSCI
25682	56050	A	25823	1	3966	
25683	56051	A	25824	2	728	
25684	56052	A	25825	528	1123	DAEEGPDHRYLSSAHGGGSAS QPPSCAVTACRWPWRGRGCRA GVWNQPTAAQGRSWPVGKTSC *GQGSTCKSQTWGFRGQRLPQ DAPAPPASLCASFHLVEAGASA DSGDTRRM TIR/FASKTVARAK RIIRVLRFSPLWVATRSLASTAI KIACCASEPGSFLQLWKPRSMA PVHRCTWHEACPEGQRQMSCV SSTGL
25685	56053	A	25826	1	492	



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25686	56054	A	25827	1740	3858	ADAAGTEKTATVSRYHFYLRYP PRSGRSVIDVRSWWRFSDAL SRSIPRAISICARGKPVVTAKFK QGTMPPEPSNKAILPIRFFPGVV LMIKKSGGRWQLSLLASVVIS AFFLNTAYAWQQEYIVDTQPG LSTERYTWDSDHQPDYNDILSQ RIQSSQRALGLEVNLAETPVD VTSSMSMGWNFPLYEQVTTGP VAALHYDGTSTSMYNEFGDST TTLTDPLWHASVSTLGWRVDS RLGDLRPWAQISYNQQFGENI WKAQSGLSRMTATNQNGNWL DVTVGADMLLNQIAAAYAALT QAENTTNNSDYLYTMGRTRWL TLIGHTITQFALGSVYTWSLFNG ALSAKLDAPVSQVAFSFGLLSL GLAISSSVAGKLQERFGVKRVT MASGILLGLGFFLTAHSDNLM MLWLSAGVLVGLADGAGYLL TLSNCVKWPPERKGLISAFAGS YGLGSLGFKFIDTQLETVGLE KTFVIWGAIALLMIVFGATLMK DAPKQEVKTSNGVVEKDYTLA ESMRKPQYWMLAVMFLTACM SGLYVIGVAKDIAQSLAHLDVV SAANAVTVISIANLSGRLVLGIL SDKIARIRVITIGQVISLVGMAA LLFAPLNAVTFFAAIACVAFNF GGTITVFPSLICGSIIASLFGGFY VTFYVIFALLILSLALSTTIRQPE QKMLHFTYLTTSALFPAGPKRN
25687	56055	A	25828	2	356	
25688	56056	A	25829	1	1307	MYETLEEVLRRSGDPADQKYV ELKARAEKALDDVKKRKLVC WRRRQICALRRISRSPYPGHQL ECIASFDRNFEAMQKEMYGQF ENTFMMYLPRLCEHCLNPSCV ATCPSGAIYKREEDGIVLIDQDK CRGWRLCISGCPYKKIYFNWKS GKSEKCIFCYPRIESGQPTVCSE TCVGRIRYLGVLLEYLTAQQFF PVWPPDHFVHPF*TLVYLPAPP SR*CDRVQLMASLQSVARASRE YRWYGFSR*TPRKALALAQLRP AESSPTAPDCN

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25689	56057	A	25830	583	1369	RHQLNSIASPAGGRWKDIGWF NFPQSNLCLKREKQDESCSLTQ ALPSELKVSADNVSLTGAVSLA SMLTEIFLLQQAQGMPEPGWG RITDSHQWNTLLSLHNAQFYLL QRTPEVARSRATPLLDLIKALT PHPPQKQAYGGTLLPLVRFMA GPDNLANLGGALKFNWTLPG QPDNTPPGGELVFERWRRLSDN SQWIVSLVFQTLQQMRDKTP LSLNTPPGEVKLTLAGCEERNA QGMCSLAGFTQIVNEARIPACS
25690	56058	A	25831	199	543	
25691	56059	A	25832	1	642	EASIFRRLSVYDNLMAVLQIRD DLSAEQREDRANELMEEFHIEH LRDSMGQ*SARPGRCRAGAQ* CV*CR*PRSGQPRQTVRRAE*IS DSQPVRGQFLHG/VRSPPESDCP MLSRRCM*NSSISSFARSSRCS ADKSSRICSTAIRLS
25692	56060	A	25833	3	329	
25693	56061	A	25834	1974	2195	
25694	56062	A	25835	1	615	
25695	56063	A	25836	2	166	
25696	56064	A	25837	2	189	STPGNWRFTTTYPLNCATRWK M*FLIVATMAPSVYWSLPRNIA AAKPTTPPTPSRRSGARGK
25697	56065	A	25838	64	354	
25698	56066	A	25839	1123	1845	
25699	56067	A	25840	1120	2097	
25700	56068	A	25841	124	548	CRQMVGTRRGGEQGKEVIDGY GKPATFYQMQDNGKPVVEGHAS QMHYELAKDFVVLGTGNAYLQ QVDSNIKGDKITYLVKEQKMQ AFSDKGKRVTTLVPSQLAKA YKGVAW*KTSA*PSTPGKLSV CWGQTPVVRPPLSTWL
25701	56069	A	25842	77	514	
25702	56070	A	25843	2487	5738	RRAAGLPGRNDAGLARSHQWA GSADTGSEKQHELQLRIQGEV SGQLNLAGSFDRKEERWKG\TL SNTRFQTPVGPWSLTRDIALDY RNKEQKISIGPHCWLNPNALC VPQTIDAGAEGRAVVNLNRFD LAMLKPFMPETTQASGIFTGKA DVAWDTTKEGLPQGSITLGRN VQVTQTVNDAALPVAFQTLNL TAE LRNNRAELGW TIRLTNNG QFDGQVQVTDPPQGRNLLGGNV NIRNFNLAMINPIFTRG
25703	56071	A	25844	538	777	

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25704	56072	A	25845	489	2797	TRRRRTMIALIQRVTRASVTV EGEVTGEIGAGLLVLLGVEKDD DEQKANRLCERVLGYRIFSDAE GKMNLNVHQAAGSVLVVSQFT LAADTERGMRPSFSKGMSQLP GLSRETRESIAMYHLRVPQTEE ELERYYQFRWEMLRKPLHQPK GSRDAWDAMAHHQMVVDEQ GNLVAVGRLYNADNEASIRFM AVHPDVQDKGLGLTMAMTLES VAPYFSGSETGMMTLNRYRLR HMAKQGNRSKRVEKLLRKPD RLISLVIGNNLVNILASALGTI VGMRLYGDAGVAIATGVLTfV VLVFAEVLPKTIAALYPEKVAY PSSFLAPLQILMMPLVWLLNA ITRMLMRMMGIKTDIVDMLLS VLDLEKM/TVDDIMLPRSEIIGI DINDDWKSIL/R/QLSHSPHGAIV LYRDSLDDAISMLRVREAWRL MSEKKEFTKETMLRAADEIYFV PEGTPLSTQLVKFQRNKKKVGL VVNEYGDIQGLVTVEDILEEIV GDFTTSMSPTLAEVTPQNDS VIIDGTANVREINKAFNWHLPE DDARTVNGVILEALEEIPVAGT RVRIGEYDIDILDKLSFCFRYSN HRRTNRTTIQRITFLHNAQYVT WRNVIRFHHCDGLMHIRVQWD VSFGDHFNAKLTHNIQHRLQRQ LNAFNHRRHIRVSFISHFQRTIQ AINHRQQFVDEFLQREFVGGFFNI
25705	56073	A	25846	87	199	QPASVQTAGAGCRL*LHQRQW RECLVLDSKRRGDGVL

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25706	56074	A	25847	1167	3306	GKSMDKELPWLADNAQLELK YKKGKTPLSHRRWPGEVSVIT GSLIQTLDGELLQKAEEKKNIV WRYENFSLEWQSAITQAINLIG EHKPSIPARTMAALACIAQNDS QQLLDEIVQQEGLEYATEVVIA RQFIARCYESDPLVVTLYQDE DYG YGRSETYNEFDLRLRKH LSLAEEESCWQRCADKLIAALPG INKVRRPFIALILPEKPEIANELA VPALREFLAATKMPATCTLKGL GAVEADYPYYLGMGMHGK AANFAVQECDLLIAVGARFDD RVTGKLNTFAPHASVIHMDIDP AEMNKLRQAHLRDEHSWRYD HPGDAIYAPLLLKQLSDRKPAD CVVTTDVGGHQMWAAQHIAH TRPENFITSSGLGTMGFLPAA VGAQVARPNDTVVCISGDGSF MMNVQELGTVKRKQLPLKIVL LDNQRLGMVRQWQQLFFQER YSETTLTDNPDFLMLASAFGIH GQHITRKDQVEAALDTMLNSD GPYLLHVSIDELENVWPLVPPG ASNYKKHHKCLKQTFGVKIIPDV HDPSQAQPVADVNNVIQLPAFL ARQTDLVETHGENRPGQMGN VDKFKEGGNEKVILCDRGANF GYDNLVVDMLGFSIMKKVSGN SPVIFDVTHALQCRDPFGAASG GRRQAQVAELARAGMAVGLAG LFIEAHPDPEHAKCDGSPALPL
25707	56075	A	25848	1	695	MATRASVTPMSLFSAGTCLLST SCVLSPVGDTAEESCWQRCAD KLIAALPGINKVRRPFIALILPEK PEIANELVGLECPRTHFHSKEW LKVVANDPTAVRKLEHYWSQD IFSDREASYMSHENHFGYAACA ALLREQGLAAIPRLAMYAHKE DCGSLLVQINHPQVIRTLILLVA DKNKPSLQRVAKYHKNFPHAT LAALAEALLALTEPPA/RPWLSN HRRQKAATAKSTR
25708	56076	A	25849	823	1091	CVRFARINCSDRRSRCFAGFNH VLNKALGVHINHFG/YSACAP* CRYPPHAAGEFYDPCRHKGTT GYRHRQGYPPGEPPPRASWLD LR
25709	56077	A	25850	714	875	EFSSARISRTSRLKYTNGCCRL WSAFCRLRTATTVPARP*QLR PDRSRAQCQ

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25710	56078	A	25851	2730	2893	WPVGERLAPGDYPVI*TGQLCT AAGD/EWRR*KVRRHQPLWRG FPNRRYMAWRSA
25711	56079	A	25852	750	929	SFHPAGRRYLYRHSSRSGNITN GCCRLWSAFCLRLTATTVPPAR P*QLRPDRSRAQCPV
25712	56080	A	25853	2	2427	CRQHHRWHSGSTAVYRRVLITS KCWNVFIRTKTWTVSILTTSVV CASARRVCVPAPRAVSSRCLSV TTLIPSASTPW*LAHRISLAAR* AFWFNCRIPAGIDNVKVLERIH PDKDVDGFHPYNVGRLCQRAP RLRPCTPRGIVTLLERYNIDTFG LNAVVGASNIVGRPMSMELL AGCTTTVTHRFTKNLRHHVEN ADLLIVAVGKPGFIPGDWIKG AIVIDVGINRLENGKVVGDVVF EDAAKRASYITPVPGGVGPMT VATLIETRYRQGMFDGSSIGG WKGINESDMVLMPPDASTAVID PFFADSTLIIRCDILEPGTLQGYD RDPRSIakraedyLRSTGIADT VLFGPEPEFFLFDDIRFGSSISGS HVAIDDIEGAWNSSTQYEGGN KGHRPAVKGGYFPVPPVDSAQ DIRSEMCLVMEQMGLVVEAHH HEVATAGQNEVATRFNTMTKK ADEIQIYKYVVHNVAHRFGKT ATFMPKPMFGDNGSGSPSQPQ SQPTPEILLQALLSAGCFYAVY YVTYKTRLRKRADVPRRPLFT MNRVETNLTWVILMGIALVSV GIFFMHNGFLLFRLNSYSQIFSS EVSGVALKRFFYFFIPAMLVVY FLRQDSKAWLFFLVSTVAFGLL TYMIVGGTRANIIAFAIFLFIGII RGWISLWMLAAAGVLGIVGMF WLALKRYGMNVSGDEAFYTFL
25713	56081	A	25854	502	885	
25714	56082	A	25855	233	738	SNSCKRTKIISDVTSVFHAIFPAI KITAPNSPRLRVNDSATPLTSAG ESSGSTTLQKLCQRVAPSVSAA SSYSGPNLFQHRLHGTHPKRNA GKGHSHRNPQPCIGDFDIKLRQ PFTVKTLVYKEKGQR*GGDRV LPAQRVNPSAHQAACGLGSDS GLGSTPSADRKRR

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25715	56083	A	25856	1	2363	MRRQDTGRRGRKRRDAGRWQ WRYWKGKSFTPMNATWDVAG KGEWHDSTITLTDLSTGFDQLQ YGTMTVEKPRLLDKPIVWVRD AQHPSFSGALSLDAGQTLFTGG SVLPSTLKFSDGRDPTYFLFK GDLHAGEIGPVRVNGRWDGIR LRGNAWWPKQSLTVFQPLVPP DWKMNLRDGELYAQVAFSAA PEQGFRAGGHGVKGGSAWM PDNQVNGVDFVLPFRFADGAW HLGTRGPVTLRIAKQRKEMRN NNLRQFKLLGPDVGFDSINDRP MAEELSKLLSKQNEENLLPKTI LYCLNPRDNEVLGTMIENGASF AANPLYFDPKNIVELAIEAGCN CVASTYGVLASVSRRYAHRIPF LVKLNHNETLSYPNTYDQTLY ASVEQAFNMGAVAVGATIYFG SEESRRQIEEISAAFERAHELGM DGGWIGLMIKPLGRWSLIMEID EGFAVGMSPAELSAEQLLSKL WLWEGKAERYGWGRKSMDKE LPRLADNAQLELKYKKGKTPLS HRRWPGEVSVITGSLIQTLDG ELLQKAEEKKNIVWRYENFSLE WQSAITQAINLIGEHKPSIPART MAALACIAQNDSQQLLDEIVQ QEGLEYATEVVIARQFIARCYE SDPLVVTLQYQDEDYGYGYRS ETYNEFDLRLRKHLSLAEESCW QRCADKLIAALPGINKVRRPFIA
25716	56084	A	25857	1	4440	MNRFDGAKQNVVGADAHHLA DTAVKRNQSLFQLRASGHPRLP AGGGKAVFHGRFAAKKIEAVA FYFRHLIALLVVQMHFKLVKG NVDVVFTAQLIDSTVQLIDSTTT VTQFTHIQTQLMRSVEWLTND GSCYRANETRQFARMLGLEPK NTAVRSPESNGIAESFVKTIKRD YISIMPKPDGLTAAKNLAEAFE HYNEWHPHKAGTLTNEQWQQ VTAELHDRMMETVFFALDDAE QLFAHHQPTPVTSVDLLGQG

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25717	56085	A	25858	1	3705	MEEYGGVDVRLYRIPDPMAFL RQQKNLHRIVVQPQYLGDGLN NTLTWLWDNWyGKSRRVMQR TFSSQSRQNVQTALPELQLGNA IHKPSRYVQNNQFSPLKKYPLVK QFRYPLWQAKPFEPQQGSRGL YLVEAMVGGYRATTGGVVSDT VALSKVSSKELLVWTAGKKQV NEPGSEIFGLTALRITAENQDCA SLTPETFLPRIHVIKGVNISTATV CRQCEDAPCANVCPNGAISRDK GFVHCEARTLHLFAKT
25718	56086	A	25859	123	923	TDSPYERGHLSNLLGPRDAN GIPVPMTVDESIASMKASLLKKI KRSAYVYRVDCGGCNGCEIEIF ATLSPLFDAERFGIKVVPSPRHA DILLFTGAVTRAMRSPALRAW QSAPDPKICIS\YGACGNSGGIF HDLYCVWGGTDKIVPVDVYIP GCPPTPAATLYGFAMALGLE QKIHARGPGELDEQPAEILHGD MVQPLRVKVDREARRLAGYRY GRQ\VADDSFTQLGQGEEQVAR WLEAENDPRLNEIVSHLNHVVE
25719	56087	A	25860	1337	1516	KLKSKSAKRHKFITPILAWRILI HYLQRVAV*WGSRL*LFITIP SRWRLPHNTGKG
25720	56088	A	25861	1	545	MARLAALKACETVYSMGVRSR RRSPLEHLWQLKDQLVNEGEL VLETLVIDGDENTVLVPGDRYA QMRNVYFIPSALALKNLKKC GFVDIRIADVSR/ITTTEEQRRT WMVTESLADFLDPHDPGKTVE GYPAKPRARNRNRADHRQRL RHRTRKKQTHGQRRRRRPEPA QRQPQTGTTD
25721	56089	A	25862	620	1117	
25722	56090	A	25863	1	1188	
25723	56091	A	25864	231	407	
25724	56092	A	25865	1	501	
25725	56093	B	25866	1	2373	
25726	56094	A	25867	1	2211	

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25727	56095	A	25868	2093	3589	GGINGKNFWFFLSPFTPCVGRCHSRVQLANSHLVDVDETPPSSAAVHLYATDADSIGNCGTDREFCPCNPIRRHAFCCERLQNGYHRSGYAFHLGHYGDRKVITNFYSLIAKNHLSHWLETLPQIANWQREQQHGLFKQWSNAVEFLPEIKPYRLDLLHSVTAESSEPLSAGQIKRIETLMRNLMPWRKGPFSLYGVNIDTEWRSDWKWDRVLPHLSDLTGRTILDVGC GSGYHMWRMIGAGAHLAGIDPTQLFLCQFEAVRKLLGNDQRAHLLPL/GIEQLPALKAFDTVFSMGVLYHRRSPLEHLWQLKDQLVNEGELVLETLVIDGDENTVLVPGDRYAQMRNVYFIPSALALKNWLKKCGFVDIRIADVSVTTTEEQRRTIEWMTESLADFLDPHPAIFQIWPCTFMHAYHAFFDPVSHHRACQNLTTFVPDTHQIAIRNTKACSIFVSFALRTTHSCAISHSSLEDPPAILFKIADRMEQNLELLATAGNLG
25728	56096	A	25869	231	1785	DDEVHRYSELRTRTVPSYPPERSGEAKTAAQRAGTAFRRGRGAGVPFNLQQRSDRWCS*RSQQNA*RLIGLHGQNSRSPQLPMESASVA*RCGSIIEKTTLSSRPFYWCPGCQHYADRFGA



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25729	56097	A	25870	1818	3311	RMAIQFRTLRLRWCWKISLVSS FTVVKAMTIRIVAMRQLLRQQ KQRTFVC*SS/TVDGVLS DGLIY MGNNGEELKAFNVRDGYGIRC ALTSDIEVAIITGRKAKLVEDR\
25730	56098	A	25871	1	3465	LPHWGSLTCIRGSQTN*SPLAIC WKNWRLP/QENVAYVGDDLID WPVMEKVGLSVAVDDAHPLL GTEIDAYIENADYQYNKKRLRE IDRRVRYLTKCLENLKIVDYSP QQEGKVFFGAWVEIENDDGV HRFRIVGYDEIFGRKDYISIDSP MARALLKKEVGDLAVVNT EASWYVNAIEYVKPRLNQT VRLLEHEMGQVWISGEISNFT QPASGHWYFTLKDDTAQVRCAM FRNSNRRVTRFPQHGGQVLVR ANITLYEPRGDYQIIVESMQPA GEGLLQKKYEQLKAKLQAEGL FDQQYKKPLPSPAHCVGVIT SKTGAALHDILHVLKRRDPSLP VIIYPAAVQGGDAPGQIVRAI ELANQRNECDVLRPCVWCRRV RCRR
25731	56099	A	25872	1	3126	
25732	56100	A	25873	1	1722	MSSLSQAASSVEKRTNARYWI VVMLFIVTSFNYGDRATLSIAG SEMAKHIGLDPVGMGYVFS AFSWAYVIGQIPGFVDIFSG FGIIVALFTLRFLVGLAEAP SFPGQSRI VGDWFP AQDRGT GVSIFTPFIL RKGDLRPIW VVILMAGQLHAL MSTLEDTP FSNKAGMRLRRWI NAAVMRL NPLACLATRSNQVN WLLLT GNISVYPVGSSEPTRRR STPINSTPHFNKILPINARY SPTLPSSDGTRWTTTRIDDK PTVGHK FARYWDVELREIP\
						MRPG\QLFRDPKRMIEGCAENPL\G V\VPTEGVTYAGNYEFPQPL PDALNKFQADPGIDIDMHIDA ASGGFLAPFVAPDIVWDFRL PRVKSISASGHKFG LAPLGC GWVIWRDEEALPQELVFNDY LGGQIGTFAINFSRPAGQVIA QYYEFLRLGREGYTKSTQP ARGSPANNCCQAQPETP DRAVIHPTDGYESAATHIVLS PPTASDSDPAHRDQRVVKTD AWSVVPGSTSEYPRRYKAEW FCQPF AVLPAI LAWSAALWRY QPRARRKADYGCRALNSLKNEL TTP

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25733	56101	A	25874	1	2385	
25734	56102	A	25875	1	1767	
25735	56103	A	25876	1	2079	
25736	56104	A	25877	368	1261	TSPRARPAAQSGRGAFL/HLTE KGVNRFAYGLPESSGKRWAT EREYAFRQLVAEEKYRGVVYQ GLETAPENWQHAQNRLADWL QTLPPQTGHAVTDARARHILQV CEHLHIPVPEKLCVIGIDNEELT RYLSRVALSSVAQGARQMGYQ AAKLLHRLLDKEEMPLQRILVP PVRVIERRSTDYRSLTDPVIAQ MHYIRNHACKGIKVDQVLDAV GISRSNLEKRFKEEVGETIHAMI HAEKLEKARSLISTLSINEISQ MCGYPSLQYFYFVFKKAYDTT PKEVFAIVNSEVML
25737	56105	A	25878	1	868	MTSLKNSMKWDEERFGLEYDL DIYMIVAVDFFNMGAMENKGL NIFNSKYVLARTDTATDKDYLD IERVIGHEYFHNWTGNRVTCRD WFQLSLKEGLTVFRDQEFSSDL GSRAVNRINNVRTMRGLQFAE DASPMAPIRPDMVIEMNNFYT LTVYEKGAEVIGMTPPLFGQE NFQNVILTCALEDPTRKVVLP LCRPPLSLCNRKRVMCRIFTSS ASTLRLSRCAVCWNSRITVSM RSSRRVTSVWLSAPTPIILSPAIF IVRWLLDSNPLIYYKAWSCW CSRK
25738	56106	A	25879	2097	2512	NTPVRPDVGT*TEEHGGAESGE *RNSRELRENDKA*LHQYHAQP DGKNLAFAFEHYNEWHPHSAL GYWRTVD/DMRGR*PQEPSLMI RAGRSSSPVQWQRIPLLIPGRKG DRMQKTVIPGSLFAGMPYAQPS IKTELAG

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25739	56107	A	25880	71	2613	QRKPTSSRKGLSARMMSGLTG TITTVSTGWCTTRGHNMKSRW SKVAIFTTR/SGRRVAKRVWRR ERDLTGWMSLSRKPVQVTWYG WDGDRLTTIQNDRSRIQTIYQP GSFTPLIRVETATAVRRRRRWQ WGIPAGTVQMLDRLESEILADR VSEESRWLASCGLTVEQMKK TSIHASIVRHKLLTAEQALKLLG EMFVYHMPFNRLGMELERYE KEFAQLAFKNQPMVGNWAQ SILHGGVIASALDVAAGLVCVG STLTRHETISEDELRLSRMGT IDLRVDYLRPGRGERFTATSSLL RAGNKVAVARVELHNEEQLYI ASATATYMSKSMFLAVATILIS KSSLSRLRRPSTIVCGIPISSISAN ITPGRSLRSSSSTSKTLCTQFAV QFLSKLLYAEGFVHVHRQNRH LERRDSVRPYDASFVVLLNRR SYHTRYPDTVATHRQDLVTAIF TLYGGFQCFGLGTQLEDVTNF DTTFDQQPTLAIRAWIAHHVT DICNFRGSDIAIPVDAEVVFTID VSTSSEITHRRNVDLFPDQLTVT RSQTFTAYERLSTALTVAQVCG VQRLCNYYSARLTPLPGPDSTR ESNHRLAQITQYARQLASSPSII DNRSRQHLNDVGLTAWDCVIIS QIIGFIGFQARTIATFQAYLGHP VRWLPGLEIQNYADASLFADES LRWRSSYEVEKLPEEHTKSSTA
25740	56108	A	25881	71	3478	CCLSSHPSTTATALRSLSPVRK WPKISALIPWEWAMCSLLSHGL MLSGRSLVWCWTVLVQNAS TSGRSLSGRCLPCKASSISLVD SALSFLLFTLRFLVGLAEAPSPF GNSRIVAAWFPARKGTGIINEIS PLANTALEGLGGSGDALCTQC EAEGFRHITYYLDRLPDVLARFT TKIADKIKYPFLSNGNRVAQG ELENGRHWVQWQDPFPKPCYL FALVAGDFDVLRTFTTRSGRE VALELYVDRGN

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25741	56109	A	25882	90	629	PGDWGRRQLIGS*KTPGSVFKK GKSSTPNADPFLKDKTQDRSGL ATFTMDGQIRLFYQDISGNHS GK\QSLPPAQVIVSNSVDHLKIT GVEDHKPIFAGAGKPYQNLRF IDEGNYTSGDNHTLRDPHYVED KAHKYLV/FEANTGTENGYQG EESLFNKAYYGGGTNFFRGSSR VDLQAC
25742	56110	A	25883	1	3066	
25743	56111	A	25884	104	547	LFPRLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPVDKGP PWLFKFLKNGLNFLHLSVGTRD LSRLSTILSPLYNTVAPGAN*CR ELKLVLDAADDVLSTEVRVITS SASNITPAFFCS
25744	56112	A	25885	3	4288	
25745	56113	A	25886	2	2222	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSLP QHTIPDVFIWMLSNRRVA YA RIASKDLLYSPVAGQMGKHCG KIKTHFLKIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWNSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMSWHDRFPDWKAG RILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW* KEKPPWRPIRKPLPARWPIH*C SWHDRFPDWKAGRKGSDAHRF GSWKFLQQRVSG\SATFTWGG KIRLYSADYSGNHYGKQSLPS GQVNGSNSDDTLKINGVEDHK TILDGDGKTYQNVQQFIDEGNY TSGDNHTLRDPHYVEDKGHKY LVFEANTGTENGYQGEESLFNK AAYYGGGTNFFRKESQKLQQSA KKRDAELANGALGHIENNDYT LKKVMKPLITSNTIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSLKIDWIHER YQLPQSYQRMPDFRRRLQVC VNEINSRTPMRLSYRMGVRGK
25746	56114	B	25887	1	2640	

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25747	56115	A	25888	1291	1629	
25748	56116	A	25889	1187	2925	NSLQRSHPNAAANS/WHNKLWR SHSDSDLSDHHEPICKPGLELN KKDITTSADQIAEVKTMESHPP PPVFVEHMPQDANQKGLCTK ERMICLEFTSREFHAGQIEDELN LNDINGCSSGSTLEDQPFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRLPHPDMEIRGR VEQRVGYTIEQINHMRDVFGR LRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGNDPQGTASMYHGWPDP LHHHAEDTLLPFYLGEKDDVTY AIKPTCWPGLDIIPSCALHRIET ELMGKFDEGKLPTDPHMLRL AIETVAHDYDVIVIDSAPNLED RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTQ QTPAFGRRVSGVIEIADGSR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVL
25749	56117	B	25890	1	1954	
25750	56118	A	25891	1	454	MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRAIRVPRQQGD YRTRIWKFEGLSNVLVIQLNK LIICVMCLVRDCDVLKTYFHL
25751	56119	A	25892	10	144	FLFIGKGFLKGIT*PGQIVQRG*E KKSNT*FRQFGGVDTAGNNLT

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25752	56120	A	25893	888	892	TVDLDACTKGVLTFTTALLAG GANQAFAKENTKKAYKETYGV SHITRHDMLQIFKQQQNEKYQV PQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTRLRDPHYV/EDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIENND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDDLWKFELEND DLEYLVE ENSKQKTIQDVIWFLTA YTHI RGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTPGDNHTRLRDPHYVKTAMR

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25753	56121	A	25894	1424	3807	HPLWKWLEGDMNMNIKKIVK QATVLTFTTA/LLAGGATQAF KENNQKAYKETYGVSHTRD MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGR VF KDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGD GKTYQNVQQFIDEGNYTGDPL EAETAVINHKKRKN SPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRT PDFRRRFLQVCVNEINGAVIGIP CVSIRKPDGSGIVSIKIAWIIERY QPPQSYQRMPDFRRRFLQSRPA CMHDWLCAEALAWSIQTASYL VTMQVNLTSLSSDTRDL SVVS NSGWVSSGSLVRFTIKTSSGEI KRTVPRILPDPDDPRSAIAEAPS EMPGHEVPVEEHFPEAGTNSGS PQGARKGDESMTKASDSSSPSC SSGPRVPKGAAPGSQTGKKQQS TALQASTLAPANLLPKAVHLA
25754	56122	A	25895	3	2356	
25755	56123	A	25896	1	2610	
25756	56124	A	25897	1	2496	
25757	56125	B	25898	1	3198	
25758	56126	A	25899	1	5274	
25759	56127	A	25900	1	585	
25760	56128	A	25901	1	2469	
25761	56129	A	25902	1	1914	
25762	56130	A	25903	1	2259	
25763	56131	A	25904	1367	1959	KLVTLHMDLSWR\NSGYQSQE T*K*PANRPVKRPH*GGI*\FSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSF/DGEGSIYSR*A HGAA*PSHRKDRESADLGSDG QNDKGH\QYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESHKLQQSAKKLDAELSNGA LGFIE

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25764	56132	A	25905	1	2418	
25765	56133	A	25906	3	1918	
25766	56134	A	25907	1242	1463	
25767	56135	A	25908	1907	5097	TSKKIVKQAPVLTFTTA/LLAGG AIQAFKENNHKAYKETYGVS HITRHDMLQIPKQQQNEKYQVP QFDQSTIKNIESAKGLDVWDSW PLQNADGTVAEYNGYHVVFAL AGSPKDADDTSIYMFYQKVG D NSIDSWKNAGR VFKDS DKFDA NDPILKDQTQEWSGSATFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKT IFDGDGKTYQNVQQFIDEGNEGI LPISEPPIKQDFRLLG
25768	56136	A	25909	610	2303	SLPNLDNAAICSSSSSPTTRTR*SL SEGATQ\AFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYRGPLESPTHQAEFNPTS CVSSLGTLQGFPAPAWLALHP VHPLKHKSGGSNRLSAAIWGIK RKPARVCPCTGIHASSQIQGEW RTECAVGPKAKAKATAGWRR GNNQHISSTYDINRADTQVRA VNNYDIIVMSNSFNQSEHQTY ESIVIDSAPNLGIGTINVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTGAWRNA LSIWEPVCNEIFDRLIKPRWEIR
25769	56137	A	25910	1	2103	



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25770	56138	A	25911	1	2124	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKANKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDSIYMFFKR GAIFRVHKHAVNPMSPKCRRPG GRQAYPLVNWEDRNGRSQKTV HTEGDMNMNIKKIVKQATVLT FTTALLAGGATQAFAKENNQK AYKET/YPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWP LQNADGTVAEYNGYHVVSALA GSPKDADDSIYMFYQKVGDN SIDSWKNAGR VFKDSKFDAN DPILKDQTQEWSGSATFTSDGR RSLESTTTAARPIWRKDVGGDQ TQEWSGSAPFTSDGKIRLFYTD YSGKHYGKQSLTTAQVNVSKS DDTLKINGVEDHKTIFDGDGKT YQNVQQFIDEGNYTSGDNHTL RDPHYVEDKGHKYLVFEANTG TENGYQGEESLFNKAYYGGGT NFFRKESQKLQQSAKKRDAEL ANGALGIIELNNDYTLKKVMKP LITSNTVTDEIERANVFKMNGK WYLFTDSRGSKMTIDGINSNDI YMLGYVSNSLTGPYKPLNTTG LVLQMGLDPNDVTWASLEPHE SFQWVRGLASSGVKLQTSVVL QLIKAMWTQRVSSSKVYCKEQ MNNASTMSKRTSAGCHCWQG
25771	56139	A	25912	1	3987	
25772	56140	A	25913	1	2235	

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25773	56141	A	25914	1	1950	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL/VFEANTGTEHPQPQ\ERP RTQSFTSAFAERRECIPNPADT KLSKIKTLRLATSYIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEKRRKELASKCLDLEQLGAS VEPTGNLRTKITKEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPPTHMEGFEL FHLPDLCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNVNVIT SYM TNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTV
25774	56142	A	25915	1	2448	
25775	56143	A	25916	1312	1974	
25776	56144	A	25917	2	1778	
25777	56145	A	25918	1366	2673	
25778	56146	B	25919	1	1938	
25779	56147	B	25920	1	2262	
25780	56148	A	25921	1	2100	
25781	56149	B	25922	7145	7154	
25782	56150	A	25923	2085	11232	VNSEGSEPADRKKPVHTEEAM NMTIKKIVKQATVLTLTALLA EGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KPILDGGGKTYQNVQQFI
25783	56151	A	25924	153	293	

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25784	56152	A	25925	420	687	
25785	56153	A	25926	242	491	WLHVQPLHDEHHCWI*YPADT DGVRPAFQRSPALSPEHGCVPY TPARQGSVRSKGPCTSALLYVE CSIAAPDRKHSCHKSDQS
25786	56154	A	25927	2	113	
25787	56155	A	25928	779	862	NSTLPRCASTTFARY*AIPIKVFS ILP
25788	56156	A	25929	282	443	FSAGFLNLRYAQKFPSSYPV** CYRPIYYPASDPCRNRLLYPAD VPYQALLD
25789	56157	A	25930	3	89	
25790	56158	A	25931	614	823	
25791	56159	A	25932	1229	1427	
25792	56160	A	25933	1965	2682	FAVPCRTSFGSIETVSIIPGRDT* SA*AYRVQVDSHRPRLAHNVQ HRT*RGEVLLAGVPRHVAEREI ATLAGSFSLEHQNIHNLPRDQG PGNTVSLEVESENITERFFVVG KRVSAEVVAAQLVKEVKRYLA STAAVGEYLADQLVLPALAG AGEFTVAHPSCHLLTNIAVVER FLPVRFSLIETDGVTRQLLGVS YRILAMGHAEFLIQIADMRNDGG WRDFQFSGNLVMDEPNRSAQT YIKLVKSRLGTTKR
25793	56161	A	25934	261	563	RHSRGRSALRQISPEC*IHVCSP PVQQLHPGYGNAIPLSYGHRNQ PDESDDAPVPPGWCQRYNLHQ KSTAHCGGYTIHADLVKTRCW LAPHRLPPGPGR
25794	56162	B	25935	1	1329	

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25795	56163	A	25936	761	3224	RGGAVTAKAPPDISAISALTAV KHGNCSSLTPLLNPPGSDVIVC AEMDEQWGYVGAKSRQRWLF YAYDSLRTTVVAHVFGERTMA TLGRLMSLLSPFDVVIWMTDG WPLYESRLKGKLHSNEGDAVL LEIEQEVSSVDSSFNSTLGPTFN TRTIQNAVLVKTGETTVVLGGLL DDFSKEQVSKVPLLGDIPLVGQ LFRYTSTERAKRNLMMVFIRPTII RDDDVRSLSKKEYTRYRQEQ QQRIDGKSKALVGSEDLPLVLE NTFNHAPAPSSRWALAQRIGV SRVDMQQHVRPPVNLSPKRE NVIAGYLSNSVARKQRHIQTGT VFHQLMNLLRDGINIIFMNFKY QFIVYLHFLSPKWVMYNRKC VNGMLLIASVPATWMLSRYS SHRWIAKEIPMGKTQPLPILLG /GRRIGLALA\WHFIIKQPVIV SYRTHYPADGLINAGAQCICA DFSTTDGVMAFADELLKSTHG LRAILHHASAWMAEKPGAPLA DVLACMMQIHVNTPYLLNHAL ERLLRGHGHAAASDIHFTDYVV ERGSCKHIAAASKAALDNMT RSFARKLAPEVKRQTATRAGH RGINQLSRYRRLARQNQRR MVELRSLRFMYRHRPRSFVLW QATRLHRLNIAVRHRKPDARPL PAIQRNTDIAIKQPKRAVITGNH HRSTFVPTRLAQTGSEIRRHAM
25796	56164	A	25937	3	543	
25797	56165	A	25938	209	343	LSPPMSSFLATVFRSIAWLLTAK SIRYRTT*RWIRCAAVWLTMD
25798	56166	A	25939	547	640	
25799	56167	A	25940	174	583	
25800	56168	A	25941	2001	2610	DVLVRKHNGHWTVELYSDSIP RLQINQHYASMCNNARNDGDS QFIRSNLQDAKWLIKSLERND TLLRVSRCIVEQQQAFQEQQEE YMKPMVLADIAQAVEMHESTI SRVTTQKYLHSPRGIFELKYFFS SHVNTEGGGEASSTAIRALVKK LIAAENPAKPLSDSKLTSLSEQ GIMVARRTVAKYRESLSIPPSN QRKQLV
25801	56169	A	25942	329	484	TRQLSLLVRMTL*AFVRKRRSS LA*KPLWSWLSVKSQPGWKL MLARWKSF

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25802	56170	A	25943	1	1785	
25803	56171	A	25944	2493	2696	
25804	56172	A	25945	1	1861	
25805	56173	A	25946	456	700	
25806	56174	A	25947	1	2413	MPVIKVRENEPFDVALRRFKRS CEKAGVLAEVRRREFYEKPTTE RSRYDLVDRNNNIVLEYRKKE VRLTLTDPVTGKSGEVKSLVSS LQTKYALKGYNVEATALEAAG GKVVTGKDILVRKPTLDLPLE VRRKMWFKPFMQSYLVVFIGY LTMYLIRKNFNIAQNDMISTYG LSMTQLGMIGLGFSITYGVGKT LVSYYADGKNTKQFLPFMLILS AICMLGFSASMSGSGSVSLFLMI AFYALSGFFQ\ST\GGSCSYSTIT KWTPRRKRGTFLGFWNISHNL GGAGAAGVALFGANYLFDGH VIGMFIFPSIILIVGFIGLRYGS DSPESYGLGKAEELFGEEISEED KETESTDMTKWQIFVEYVLKN KVIWLLCFANIFLYVVRIGIDQ WSTVYAFQELKLSKAVAIQGFT LFEAGALVGNGCSYAQGMWG KTAETSDLQDLLIAALQGLSAW AVKAREYGIINHVDVSFAPRAF FSTLTNVNFDSPRIVGYAREAIA LREALKAQCLAVDANARVDNP MADLQLVSDDLQELQRQAAEF TPNKDKAAIGENILGLRLCLY GLKVFNQREDQLDSCYHGHRQ LRGSLRLLFLAFIRQRLRLIITA HRVIRVNRQHAALGVKHCRLP GITGNRIQRQATQYRDRRG TGQ NQC MRGDMQQLFADIANVAN TFAQIIAGRGRKFGANLLHIAD
25807	56175	B	25948	1	3738	
25808	56176	A	25949	1518	2124	DCFCGSRHDKLPSAHQCSAKPG SDRFWRSHADAAYAHDGGIQP VLCASRSNGCLQPKCHTIVSG RCPLQQIGSVFPPSGDAANVAS FSCACDNAGSAQHRTLLLGKQ FFNCRNAFHFNRSRQTALKSG ISWVTFQLILKQQPRPVIMTKM AIGFRKV*SQRNIIRHLLVYIFKF ADGGCFVVIFLCLQRFIETGINN KMG
25809	56177	C	25950	1	747	
25810	56178	A	25951	168	332	CAWRAVCAAW/PTGASC/CNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

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25811	56179	A	25952	1	2706	
25812	56180	A	25953	1	1062	
25813	56181	A	25954	1	855	
25814	56182	C	25955	1	2412	
25815	56183	A	25956	279	713	RCDAAGAVLHSAAGLLRHCGY WQRGKPDWRSPGNYADRIC RRWFCAGGVGDRQYELCQLLA YTVSATRRGTGYCLYRDSRGR TGLPVV*HLSGAGLYGRCRFAG VRWCVRHYRRTATSGIPAGDY GGRVGRNAFCHPAVAP
25816	56184	A	25957	1	769	MDFAETELEFIKFWGDIITNKLN EALAAQGDNVVINLASDEYFKS VKPKKLNAEIIKPVFLDEKNGK FKIISFYAKKARGLMSRFHNR LTKPEQLTGFNSEGYFFDESSS NGELVFKRYEQRAECRIVTRHL SFGSDVCLDHDHRRDDHEELSY GGA AVA AVL VIEPNKLA FDGS GYLAWEGLICMQEIGKC/YRRT SGDCA*VAGRAQTG*VSGWAL SRGKNQPGVGCEAGARRHARE ARIGDERHRLAPRDM
25817	56185	B	25958	1	2472	
25818	56186	A	25959	4300	4492	DCGGVRSQRPDQR*DWNR*GA GGESDS*SLATGGQAAEGVAV WRYSARWR*PLFAGRCARAGG D
25819	56187	B	25960	49	3000	
25820	56188	A	25961	266	812	LLRWRPGALALGHKL VAGEIR QQRMDAWRAACLQNPQGILCC ARGGQRSHIVQSWLHAAGIDY PLVEGGYKALRQTAIQATIELA QKPIVLIGGCTGSGKTLLVQQQ ANG/VDLEGLARHRGSAFGRTE DELGKLAQTSTSSPAHWRETSK CGGFLCPIFLT NMRTPLVCAT VLPYLA IATV
25821	56189	A	25962	761	874	
25822	56190	A	25963	2	304	MAAYGSGIFAQTYIEAFGISTIQ PASCSPVNQYITA AFVLFGNVA HALLIALQRRNRRLQRRKGA VIVIAFNTSQGA/VPAFCCQP*S RYASPPCCSFSTA
25823	56191	A	25964	109	777	
25824	56192	A	25965	5	187	ITHKKPPPSWRSALLPAAGVFS RRYMPALCE*HWAS*RMRAEA TETFS DCTMPIIGMMMS
25825	56193	A	25966	1	711	
25826	56194	A	25967	757	1026	
25827	56195	A	25968	1	750	

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25828	56196	A	25969	1	1065	MKVLEKRNNASSEPEEKNEIRA AREHAGFTLQELVCLGASGRK VQGEAANAEEEEVAAGELDNIA KITNEGSYTEQQIFNEGYMWLS TLMKIKENKISCSWATQSHFQG SIDAGELEHLTPERVWKETESA LTTRNPQVFFQVLRDCGALRVL FPEIDALFGVPAPAKWHPEIDT GIHTLMTLSMAAMLSPQVDVR FATLCHDLGKGLTPPELWPRHH GHGPAGVKLVEQLCQRLRVPN EIRDLARLVAEFHDLIHTFPM NPKTIVKLFDSDAWRKQORVE QLALTSEADVRGRTGFESADYP QGRWLREAWVAQSVPTKAV VEAGFKGVEIREELTRRRIAAG LRG*VSRSHPLPNAEPKNH/AS NYLIPSMPGVNRSVSSNWR*PA RLTCAAE/HGFESADYPQGRWL REAWVAQSVPTKAVVEAGFK GVEIREELTRRRIAAGLRGMPT
25829	56197	A	25970	2373	2597	SADDKADSV*YLRLASA*TN CRPYRRPSAPVCRRAPAI*G*TP QNYGPPSSCPAGGFWRYPVDP RFSGFVH
25830	56198	A	25971	2616	2777	TSVRKRFTSLSGKPVAKAGRKR PPPCR*TPTANGHPKPCRPPVW CHPAPVARP
25831	56199	B	25972	1	1449	
25832	56200	A	25973	1076	1477	CAVRRSITWCKLSSKTPVRPLR PSTYRDCLTVSIALTPPASEKVK RRPVPAVKSAMKVPPGAAQSR KRVWLVSFPPTCEFLASNSRGK KISVLSALS PRWTS*PKARWA ARRLTTNLVVRH*TATSVLMK KK
25833	56201	A	25974	1	3552	
25834	56202	A	25975	196	493	KRCRFADRP GPDGRQGTAA TTFGGMSFVTILPAPIELSPMV TPGLITT*LPIQTLLPIVIGKEY ISPF LN SWCTGCPVTERVTLGA ISTLSPIVTV

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25835	56203	A	25976	1	3917	MTDKHQQHRYVAAPGPFVGD KCQVAGDPLMLRRALSNNLSN ALRYTPTGETIVVRCQTVDHV QVIVENPGTPIAPEHLPRLFDRF YRVDPSPQRKGEKSGIGLAIVK SIVVAHKGTVAVTSDARGTSG DDFFIDVVYVWRRIRKRLSVYR RIPRMSYRELYKPDEQPLAIMV PAWNERASSAIWRAGGTTLDT KFLFVGLPGPILGSKVPFEFLE VACPPSGGPVGPWRRPCRG AAAICASPAAILAPT
25836	56204	A	25977	3	292	GDMQRLNSLFC/SVAYSVLEQP DEDEGRDSINIVNPSGRPIHVSSG ATPAVREYAAHGFLYGLRQR VGEVRVDLQREQIYASKPCGST IGISLVVR
25837	56205	A	25978	2	181	SARRLR/RSKHRFRILNRRYSHA HS\MLGDMQRLNSLFC/SVAYS VLEQPDEDEGRDSINIVN
25838	56206	A	25979	1	2781	
25839	56207	A	25980	1	2554	
25840	56208	A	25981	635	741	
25841	56209	A	25982	91	501	LWIRLAKRSGKAIKERRDFIFRL CTHRVRQGTALLRLFQHSNGN RLMKLDNQHLRLRISNHRAFHF RHRTTVKQSQQTFRYPWLYRV RHWGQKPKTDNFHGLLARIFG NSRSKTWGENR*EHSVLEQPDE DEGRDEY
25842	56210	A	25983	2153	3062	APVMPPERLPVIAVRQYPTANC CSDCLAAASRFFLASVAPEQT DADTRRSRVAVGRRKTRSNSA NQPRPRDWRELQMDRLARV AQARASFAARETLRIGDAMEQ MMEGLNKVMHGEPQEKELR KLADDINVLTYAIKLYLAMPK EELAEESRRWAEIEMSLNLEQ ASDIVERMG\GELVDKSWAAR RAFLDGLKELDALYEQLLSNL KLAMSVFFSGDVTSAARRLRSK HRFRILNRRYSHAHVDRHQ NVQSIETSSLHLGLLGDMQRLN SLFCSVAYSVLEQPDEDEGRDE
25843	56211	A	25984	135	308	KLSRLGIFPRPSLFPRPTSPST PAPAS*PAPS*VSPSPRTATPSCP TSYSSFPCH



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25844	56212	A	25985	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA*PFLKP\LQQV S\GPLGGRLPLPIPGNLLLQVAD GTLSTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
25845	56213	A	25986	1	1077	
25846	56214	A	25987	1	1323	MHSGTFNPQDFGWQGLTLTPA AAIHIRELEILDEYGIPNAWQGE TNFWGSTAVSIDRLAAYKDVD VLCFDHDNSKMDALMATPL WQAMPFVVRAGRFRQVPVWF YGATLSAMHFVRVLDNAIGVIV ATALTWMNFSQALPRSQWAQ AAWSPDIDVIEQMIFHYSLLPRL AISLLVGAGLGLDVRYLNGM LFETEGEELRTVATDGHRLAVC SMPIGQSLPSHSVIVPRKGVIEL MRMLDGGDNPLRVQIGSNNIR AHVGDFIFVTSKLVDGRFPDYRR VLPKNPDKHLEAGCDLLKQAF ARAAILSNEKFRGVRLYVSENQ LKITANNPEQEEAEEILDVTYSG AEMEIGFNVS\VLVDVLNALKC ENVRMMLTDSVSSVQIEDAAS QS\AA YVVMRLEGGSPPLGNP EFQKISSPCALYIALCSKARHHT GRYLGLCGL
25847	56215	A	25988	211	475	GAIGVFTAGKLTRASVYHQR RFMQRET VWLVEDEQGIADTL VYMLQQEGFAVEVFERGLPVL DKARKQVPDVMILDVGLPDISG FELCRQLLALHPALPVLFLTAR SEEVDRLGLEIGADDYVAKPF SPREVCARVRTLLRRVKKFSTP SPVIRIGHFELNEPAAQISWFDT PLALTRYEFIVLKTLLKSPGRV WSRQQLMDSVWEDAQDTSHT VVAFATILQGISRDLRRRILPYCI RCRRERCTGTALWQ

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25848	56216	A	25989	1661	2499	QMAHDEQWLTPR\LQTAATLC NQNA PRDGSPLWLGVDLGTCD VVSMVVD RDGQPVAVCLDWA DVVRD GIVWDFFGAVTIVRRHF DTLEQQFGRRF SHAATSFPPGT DPRISINVLESAGLEVSHVLDEP TAVADLLQLDNAGVVDIGGGT TGIAIVKKGKVTYSADEATGGH HIFLTFAGNRRISLEAEQYKRG HGEEIWPAVKPVYEKMADIVA RHIEGQGITDLWLAGGSCMQP GVAELFRKQFPALQVHLPQHSL FMTPLAIASSGREKAEGLYAK
25849	56217	A	25990	915	1518	PSGHAPDLNGAPATAHQPGGR YPAPRSVRRATDNGYPAGDPLE WRSTAQVFVSSRRRVSLPNDRK TVLTRCWSAAH*FALPAPLCRD RTGERKNRRFHTPTRCGRGFCP APAASRRCAGRRRGDASGRAY RRPAPSHCPVQ*RGHRKSTTTSS TSRRRPGQSARPYSGPEYRE*Y CSAQRFFHNDGSRPPVVRQAGR AQFP
25850	56218	A	25991	1	1254	
25851	56219	A	25992	675	835	VRWCWIFPSQ*TLFQKRAGHA APSADVLHESCQHFLNLLNRLG RHYDFGEGEP

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25852	56220	A	25993	1	2255	MRESPTRDDSKNTVNTTIRIRIH NSYTEQLQIVTNSYCTKQWHV HHTAKPYAHIQRPATPDAQLTK MQEEEEVEPEPEMEAEVEPEPN PEEAETESNMNRDVRGTVRI VLKTFNNCRDVFVAFEVNNT VSLLVATTDMTSGDTAIVVTTT GFAVFFQQRSKSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDKQLHSS FDFCFGRVFSNFEYLHGARAHA CIPPSACIGEVLETSSFDIRVSVY RSSCVCVRLRESSTGDRYFGGL SLQMMRKATGLTDITSDTPGNT DDQRWHPEHGLTQRMQKEQE LVKEPEGAARDGDGEAEAWGE VKAKSSGCVGTRASSHLFRCNV CELHFKESELLQHPCTPSGERP FRCGECQKAFKRPSG\LRQHER THSAERPFCDCPLPMGFKQY ALMRHRRTHKTEEPFKCGLCE KGFQPSHLLYHQHVHTLETLF KCPVCQKGFQSAELLRHKCLP GAAERPFCPCVNCAYKRASA LQKHQLAHCAAAEKPLRCTLC ERRFFSSSEFVQHRCDPAREKPL KCPDCEKRFKYASDLQRHRRV HTGEKPYKCPNCDKAFKQREH LNKHQGVHAREQQFKCVWCG ERFLDVALLQEHSQAHSAAAA AAEGAYQQTLHHPRRQQQQY WQLLCARNNVKLCMHILFSPH
25853	56221	A	25994	98	596	YSGIIMASKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIL EPAGRTTAPTIAAALANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
25854	56222	A	25995	3	554	
25855	56223	A	25996	1	222	

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25856	56224	A	25997	1	1043	MKVKVLSELLVPALLVAGAANA AEVYNKDGKLDLYGKVDGL HYFSDNKDVGDDQTYMRLGFK GETQVTDQLTGYGQWEYQIQG NSAENENNSWTRVAFASLKFK DVGSDYGRNYGVVYDVTW TDVLPEFGDITYGSDNFMQQR GNGFATYRDTDFGLVPTLHP ARVCCALRELKDAGADRIWYI ADAFRAGLSVDGVFNLTNDR WFLHINRAKDKNHMISIDA AFDKIQPFMLKTLNKLIGDGT YFRIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISDFSKVSGYKINVQKSQT FLYTNNRQTESQIMSELPFTIAS RRIKYLGIQ*IRY*WDVFQNNK SYL*QTHSQYHTEWAKTGSIPF ENWHKTGMPSLTAPIQHSVGS GQGNQAGEGNKGYISIRKRG SQI VPVCRHDCLSRKPHRLSPKSP
25857	56225	A	25998	1	3339	
25858	56226	A	25999	1440	1880	AAQHASVYLYQNRIRGAVPPV RFFHADQRTRRDGADGKQRHA TETLCRIAEEKISSREQDWLHCD ERQSLYEW*PW*PSPHSGRSQK EKRQT*TAILDAYCADCFRCGR GVFARRERRTKRDRPGNAGTG GDCPCWLRQYECVRL
25859	56227	A	26000	1	2277	
25860	56228	A	26001	1	1845	
25861	56229	A	26002	56	113	QQQPNPTRDQLQLAILHNIRGIR KIYG*IQSATREAG*GHSPQY
25862	56230	C	26003	1	2317	
25863	56231	A	26004	3	2168	
25864	56232	A	26005	670	2541	
25865	56233	A	26006	98	944	YSGIIMASKLYPVVMAGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQHRFIVAEQLRQLNKLTENIIL EPAGRNTAPIALAALAAKRHS PESDPLMLVLAADHVIADDAF RAAVRNAMPYAEAGKLVTFGI VPDLPETGYGYIRRGESVAGEQ DMVAFEVAQFVEKPNLETAQA YVASGEYYWNSGMFLFRAGRY LEELKKYRPDILDACEKAMSAV DPDLNFIRVDEEA/FLACPEESG DYAAMGRTGDAVVPLSLGAH

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25866	56234	A	26007	3	417	
25867	56235	A	26008	507	717	WPEAEYLDNADAVLAMYHD/Q GLPVLKYQGFGRGVNIT/LGLPF IRTSVDHGTALEWRTCKPMVP DSIVSCIL
25868	56236	A	26009	5	378	MAVCSSLSPRRSPAFL/HDFTDV WTHHLVFGVNP*RGLIHGTALT DHVG/ENGNYSSD*IHGTALTD HVGKTETILPTKYANIYSINTSK DRFLTKPAFAEVVFLHLPRELQ TCSFFLSQNMLVKVGHQRHWF TEVDVTLTEITQLA
25869	56237	A	26010	1	469	MQKEYAYWMDGLKTCKPDNR KNALSNFGWYPSQPLLGRSRY ATTESWVEDIATAKSNPNRLPL KFTATCALPLRLAGFQ\PRWMD NPQQNLTLAPPASYRSI*TA*CL K*KNPRPRQQSCRR*RDGNQYE TLANARQKGIEKTCGTINKAG MPITT

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25870	56238	A	26011	2	1854	CGGTLARACDGCLNGEFAA/LI TGPVHKGVINDAGI/PFTGHTF FEERSQAKK/VVMMLATEELRV ALATT/HLPLRDIADAITPALL/H QPKYLDNADAVLAMY/HDQGL PVLKYQGFGRGV/NITLGLPFIR TSVGHG/TALELAGRGQ/ADVG SFIRPYSAIK*L*NAGASVRWLS ERRICRAITGPVHKGVINDAGIP LPVIPSFSKSVRRRKRCDDAGD RRTSRGAGNDALPLRDIADAIT PALLHNRNILITPTPCWRCTRSG SSRAKIPGLRARCDITLGLPFIRT SVGHGQPLNWRDVANRCWQF YTPLFCHQMIVKPMHNRIPRAT YRGAVKSAIGLGCCCLKASATR CAYRWRRSGRRDQSRFRYFEIA GIRSRGINFIACPTCSRRNLMLS VRLTRWSNAWRYHSDGRFD YRLRGECPGEALVSTLGVTGG NKKAASMKGMAQRPSGQQDM IDQLEARIRAKASQRTKRVELT FSRLKNNNVEKQDTALFALYQ RRLRCVRKVRRYVMAAVSAGC GGGVCAVSAYMPLNRLPNAQE ANNEYTSFENCIKCTVCTTACR VTLRNNDPKLPYLKAGLKMK RVTRSPRRYCAAASATHRFNDE RAGKVQGMFDINKLPADRETC STLTCARSRQNQTNPYPANRAA NAYQVVLATKALEKVSMKSP WQHKVSSPAAVRHLPISITQRRT

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25871	56239	A	26012	1	1504	MGIVASASVQAAEIYNKDG NK LDVYGVKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFM TKRASGLATYR KTTSSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLILVPLIVGYLIPLRQQAAL KVINQLLSWMVYLILFFMGISL AFLDNPRPYLADSV PDRQLLAP VNSISRYKTIEWLNYIATELHK GFTPLFRPDTPEEYKPTVRAHSE KKLQYVNEALKDEHWICGQRF TIADAYLFTVLRWAYAVKLN EGLEHIAAFMQRMAERPEVQD ALSAEGLKGSRHLSAGARRLIL GIIVTFSLILALICVTQPFNPLAQ FIFLMLLWGVALIVRRMPGRFS ALMLIVLSLTVSCRYIWWRYTS TLNWDDPVSLVCGLILLFAETY AWIVLVLG YFQVWVPLNRQPV PLPKDMSLWPSVDIFVPTYNED LNVTPDELKQVLDVAAALKAL RAENISTKVFNSGLGISVFRDNS TRTRFSYASALNLLGLAQQDLD EGKSQIAHGETVRETANMISFC ADAIGIRDDMYLGAGNAYMRE VGAALDDGYKQASGFSEPAMR
25872	56240	A	26013	2903	3024	
25873	56241	A	26014	123	335	
25874	56242	A	26015	2634	2787	
25875	56243	A	26016	1477	2485	NPEQLMVKTQRVVITPGEPAGI GPD LVVQLAQREWVVELVVCA DATLLTNRAAMLGLPLTLRPYS PNSPAQPQTAGTLTLLPVALRA PVTAGQLAVENGHYV VETLAR ACDGCLNGEFAALITGPG\HKG VINDAGIPFTGHT EFFEERSQAK KVVMMLATEELRVGLATTHLP VRDIADAITPALLHEGIAILHHD LRTKFGIGEPRLV\GGLNPHAG EG\GPMGTEEIDTIIPVLNELRA QGMKLNGPLPADTLFQPKYLD NADAVRPMYHDQGLPVLYQY GFGRGVNITLGLPFIRTSVDRGT ALELAGRGK\ADVGSFITALNL AIKMIVNTQ

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25876	56244	B	26017	1	3432	
25877	56245	A	26018	1385	2536	KSSQSHLITGMLEHVFKSGDT PSR/LPELMNGAQALANQINT/F VLNDADGAQAIQLGAN/HVWK LNGKPDDRMIED/YAGVMADTI RQHGADGL/VLLPNTRRGKLLA AKL\PDASRTGETH/TVEWQAP AVAITRTATQARQSNSVDLDK ARLVVSVGRGITDSQTLRLYYI RLPPSLMGMRLTVFLLPICGFH RVGPPTLLSVLATNRNRNAKVF AHKNAPKFRSHTASEQWKSSIA HNKGVHPRVTSHTARHSLME TDIPHNIHSGHASPADITRHRQA VFNSVPKMASPIGDRVPTLHTQ HNSPANTGKAQSLTCGPAAES CCRLIPRQMVSLVFRLKARLLLI TTELPKGLVPVATISGTGNFGN TQSANPYRPSENTDLSLS
25878	56246	A	26019	926	1293	LSPNPKEPSCRTRLKKSGFFTRI SAGAEPLMAIPARLSNSLACGA RDSAAKE/GFVVVPVCVAVEA DIAELDDEERDEFMADVGFV GVKEVRAWTIPVGATAPQAAG KIHTDFEKGFIQAQT
25879	56247	A	26020	1	1278	
25880	56248	A	26021	678	1526	ERNTNTCEVVPNRKRAYASHD MELSISPVGKGASKGEVNPADD IEVINTELALADLDTCEIAIHRV QKKAKGGDKDAKELAVLEK CL\QLENAGMLRALDLSAEEK AAIRYLSFLTTLKPTMYIANVNE DGFENNPYLDQVREIAAKEGSV VVPVCAAVEADIAELDDEERDE FMQELGLEEPGLNRVIRAGYKL LNLQTYFTAGVKEVRAWTIPV GATAPQAAGKIHTDFEKGFIQA QTISFEDFITYKGEQGAKEAGK MRAEGKDYIVKDGDMNLFN
25881	56249	A	26022	1177	1605	
25882	56250	A	26023	1	644	MDNHIALDFLLASECGSVVYV ATTHGRNMAGARALWRATGM TDADFGKPIIAVNSFTQFVPG HVHLRDLGKLVAEQIEAAGGV AKEFNTIAVDDGIAMGHGGML YSLPSRELIADSV EYMVNAHCA DAMVCISNCDKITPGMLMASL RLNIPVIFVSGGPMEAGTKLS DQIIKLDLVDAMIQGADPKIN/D YQSRGRRCPNRCFRCKNQAGS
25883	56251	B	26024	1	1944	



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25884	56252	A	26025	1	1488	
25885	56253	A	26026	1	1919	MNKAHFVSNLGATKCCPLSFLP YRWRRVIAFVVAFYFRHLIDLL VVQMHFKLVKGNVDVVFTAQ LIDSTVQLIDSTTTVTQFTHIQT QLMIQRAGTKCRKEDFRHCVGI LEPEWYPIIVVRVVVDVSQFEV RSQSLIFAVGEGITCIYTFITHA VVRLTVNFHVVAQLSSPDWNR PETLPVRSHVTSITQFEVVTGFQ TEAPSVGVGATVNVSTVAHGC RQVVVEVRVAQATINKDVVRE VSRRVDVGSLAVLIHLTRTVIH VTFSEACSRDDPLSVVTNVFGI NTDHDAVNILIIVDGAVVAEV TTEVAYPCAAVISQAMTRVGQ TSTNGVWTISSVNAFQIRTGAA RSLAPPWSLTEKVFCGTTMER MRAALEAIMPFTESSATQAPY LPCGREGLAVRQFFGRGEGIE TVAYLFRIIRVVRTRVLSIGGFS RTRISSTPVKIATLRQNRSDCHA AMIADTYRQVTPDPPFSRHPFS RVLRLFFIIFKDTKAHNGIGMI GGVNRADYLNLLLEKVFGDRV SSPQWQATLKAIVPSYGRKLNG DVAATERELQYTSEVVGLNYD KPQAADNNRQHKVRAARSRRQ NRPDRGSQIADSTAGARCRFQT PTAGDGA*SAASTAAPI/MLNLL EKVFGDRVSSPQWQATLKAIVP SYGRKLNGDVAATERELQYTS EVVGLNYDKPQAADNNRQHK
25886	56254	A	26027	1	2130	
25887	56255	A	26028	1144	1309	PGGSTPMAVEDPDFRSSERVLR FQPAVSVYGPEQPAV*DYAQTS YLRTPRRSDP
25888	56256	A	26029	1	3546	

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25889	56257	A	26030	1097	3332	TRVLVLDHRLRLCLYATVCAG ASWGMNPVVCSQQIDPQFHTM LMICASEEAQRMQQASEDEFN RALNIAFDNRLGLCKVESARQV FPLTGRYARQFASHRLALVGD AAHTIHPLAGQGVNLGFMDDAA ELIAELKRLHRQGKDIGQYIYL RRYERSRKHSAAALMLADSFVR TTHALRRSHGGFRLDDAAAL RFANRRTSCERNDDNTWSRSL YADLKNGT AQNIRAKFVFIGAG GAALKLLQESGIPEAKDYAGFP VGGQFLVSENPDVVNHHLAKV YGKASVGAPPMSVPHIDTRVL DGKRVVLFPGPFATFSTKFLKNG SLWDLMSSTTTSNVMPMMHV GLDNFDLVKYLVSQVMLSEED RFEALKEYYPQAKKEDWRLW QAGQRVQIIKRDAEKGGLRL GTEVVSDQQGTIAALLGASPGA STAAPIMLNLEKVFGRVSSP QWQATLKAIVPSYGRKLNGDV AATERERKTLHVIFNDLRPEQC EAGKSPSRVQLQWTNGGMLN APLSRLTLVEKLASMLDPGHL ALTQIAQHLALLQKMDHRQHS AFPELPQQAALYEWFSARCRW KEKALTQRGLLVQAGDQSEQIF TRWRAGAYNAWSLPGRCFIVL EELRWGAFGDACRLGSPQAVA LLGDLLEKATQHLAESINAAP TTRHYHQQWFASSTVPTGGEH
25890	56258	A	26031	115	654	HATQTMTPWFLYLIRTADNKL YTGITTDVERRYQQHQSGKGA KALTGGSARSPLIKKALAEQLP GIPIAGGDDFGSVTAGLAR*RF HQRHGPCWSMKAESLQLCRAD CQRRFQPMSEFGGHFRHYRLSVC WRYRFIRPEHKTAFTARFPVDN RLGQMVAKPFHLLNATTGNIC GCFNTKRP
25891	56259	A	26032	1	348	
25892	56260	A	26033	1	906	
25893	56261	B	26034	59	910	
25894	56262	A	26035	1	3684	
25895	56263	A	26036	1	2634	

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25896	56264	A	26037	1162	3478	LVRFGLLPLAYSARCFARSSED RPKDECETCCIKYPNGRNVLSQ EIHQVFVLNGIQSMGYVYNLG NELASMQGLVDVVRLSPOGSS AREAFSHSLDLARLAEKRGYH RYWLAEHNNMTGIASAATSVLI GYLAANTTTLHLGSGGVMLPN HSPLVIAEQFGLNTLYPGRIDL GLGRAPGSDQRTMMALRRHM SGDIDNFRDVAELVDWFDAR DPILEPTHNGRRLCSTVRHPRM GYTPGVEPTTGPLGQGLANAV GLAIAERTLAAQFNQPDHEIVD HFTYVFMGDGCLMEEGWFTD DTAKRFEAYHWHVIHEIDGHD PQAVKEAILEAQSVKDKPSLIIC RTVIGFGSPNKAGKEEAHGAPL GEEVALARQKLGWHPPEIP KEIYHAWDAREKGEKAQQSW NEKFAAYKKAHPQLAEFTRR MSGGLPKDWEKTTQKYINELQ ANPAKIATRKAQNLTNAYGP MLPELLGGSADLAPSNLTIWKG SVSLKEDPAGNYIHYGVREFG MTAANGIAHHGGFVPYTATFL MFVEYARNAARMAALMKARQ IMVYTHDSIGLGEDGPTHQAVE QLASRLTPNFSTWRPCDQVEA AVGWKLAVERHNGPTALILSR QNLAQVERTPDQVKEIARGGY VLKDSGGKPDIIATGSEIEITL QAAEKLAGEGRNVRVVS\ASS
25897	56265	A	26038	1	1033	MNKSPKTRDIQEEELVLEEE AAGGDEDREKEILIERIQSIKEE KQKGLGLAAGWTADVSSRRPG ASQLPPPTHPIPYRGWGPPD QHLLSTLWTNVGSYKSGSFLQL GGWCMNLDMDLNSEESRWLF RRHWDTGGIKPKHERKRAVAHL TLSEEEIRAGLSAKMSIRAIAT ALNRSPSTISREVQRNRGRYY KAVDANNRANRMAKRPKPCLL DQNLPLRKLVLKLEMKWSPE QISGWLRRTKPRQKTLRISPETI YKTLYFRSREALNHLNIQ\HLA RSHWLWPGERYNRNGERGPV TLWTG/TPISDGSRTSVKRALGQ WGEHLSRRNAFFPLCATVV

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25898	56266	A	26039	797	1440	PAMRLTAMRCISMKSRLPASR MQFCATVRWKYRCHREPTLSA QHGAFRSINPTPRNSRGNCWKK REMKWANWPIWCR*KN*RERS LSAICCASRK/TGQFVLPPARYH LRRSHSLRHGRRHTRKGERGTI NIVNGTPIHERSRNIDNRRSLGH WEGDLVSGGVGTIVGVVTGVII FTVINYGLTYIGVNPYWQYIIK GAIIIFAVALDSLKYARKK
25899	56267	A	26040	687	1106	GSLSLTALLPDTAEREEIRAGLS AKMSI/RAIATALNRSPSTISRE/ VQRNRGRRYYKAVDAN/NRAN RMAKRPKPCLLDQ/NLPLRKL LEKLNIQHLLRRSHS/LRHGRRHT RKGERGTIN/IVNGTPIHERSRNI DNSALVTVLR
25900	56268	A	26041	1	2851	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMPADFRE FVFTIADKVGFAERERILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSMASAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNYIECDYNRWRRHWSWINS LLSQKRNTQGRIEDGRQH
25901	56269	B	26042	1	1048	
25902	56270	A	26043	323	1290	GTSMNTVGTPLLWGGFAVVVA IMLAIDLLLQGRRGAHAMTMK QAAAWSLVWVTL SLLFNAAF WWYLVQTE\GRAVADPQALAF LTGYLIEKSLAVDNVFWLML FSYFSVPAALQRRVLVYGVLG AIVLRTIMFTGSLISQFDWIL YIFGAFLLFTGVKMAHAHEDES GIGDK\RWCAGYA/VHLRMTDT IDNEHFFVRKNGLLYATPLMLV LILVELSDVIFAVDSIPAIFAVTT DPFIVLTSNLFAILGLRAMYFLL AGVTKRFSMLKYGLAGILVFIG IKRLIVNFNLLQTRACLGGGWA FGETLIKPGEYRMKTAGG
25903	56271	A	26044	28	96	
25904	56272	A	26045	1	777	

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25905	56273	A	26046	77	532	KPSRPEISKGKSVKPAASRRARE CAVQALYSWQLSQNDIADVEY QFLAEQDVKDQDVLYFRELLA GVATNTA\YLDGLMKPYLSRLL EELGQVEKAVLRALYELSKRS DVPYKVAIKEAIELAKSFGAED SHKRVNGVLDKAAPVIRPNKK
25906	56274	A	26047	3	175	
25907	56275	A	26048	85	440	YSSSSLWAARKRRQMVLSARR FATSDRVCRCVLVWSAGTSRA KSKSTGWLSMASKAIGVSS*TK TPTARRVSSSLPCGMAIPLPIP VLPIFSRVRIASKTT*GSSLSCFA ARSLMTS
25908	56276	A	26049	80	706	KLIQVAVVIGGGQPLGAFLCHG LAAEGYRFPVVDIQSDK\AANV AQEINAEYGESMAYGFGADAT SEQSVLALSRGVDEIFGRVDLL VYSAGIAKAAFISDFQLGDFDR SLQVNLVGYFLCAREFSRLMIR DGIQGRIIQINSKSGKVGSKHNS GYSAKFGGVGLTQSLALDLA EYGITVHSLMLGNLLKSPMFQS LLPQ*KTKLGIK
25909	56277	A	26050	741	893	TGCSGKRSLLQQRREERRRNPVQ KIRCTV*RVRNGRIRYCSPRAGF YSRYR
25910	56278	A	26051	269	987	
25911	56279	A	26052	1	1268	MDAKCDRSRFPWLWPTKRPRG CFATFVPIGIPYDQTKTHLHTLS LVAKRLADKTICRRLRAAQSD ELYQITDTEGTPDEARCEEKQY MVLMIVSGRSGSGKSVALRAL EDMGFYCVDNLPVVLLPDLAR TLADREISAASIDVRNMPESPE IFEQAMSNLPDAFSPQLFLDA DRNTLIRRYSDTRRLHPLSSKN LSLESIDKESDLEPLHGFDPDY DTVGFSCRRIDYVCRIKHSRRI RQVVLLNFAKSGAFSTTRGTDD KTRRSLLVTL/VAYFLCAR/EFS RM/MIRDGIVRIIQINSKSGKV GSKHNSGYSAKFGGVGLTQS LALDLAEYGITVHSLMLGNLLK SPMFQSLLPQYATKLGKIPDQV EQYYIDKVPFKRGCDYQDVLN MLLFYASPKA\SYCTGQSINVT
25912	56280	A	26053	1	168	LKVFILVIFTLRSRE*EHAMFGFL FLC*FAENDGFQLHPCPCCKGHE LILFYGCIVFH
25913	56281	A	26054	2	253	

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25914	56282	B	26055	319	3780	
25915	56283	A	26056	513	762	
25916	56284	A	26057	375	550	GVGLCGRSSIRRNM*CK**G*/L SPKIALMACGRRHTRSLFMTSK DLSRMMRLQKEIRL
25917	56285	A	26058	662	1033	EPKRASGCMWPVGAHCHHPLL LLACQQKLGPSPHQASSRS*NIQ TLDRLCMSSWIPQEHSSSQSWH RSCFLNVTRPWSFYSPVGKNR WMGPFWFSFLDALLLFFTLHSY VAWPVEMMALNLLG
25918	56286	B	26059	1	2034	
25919	56287	A	26060	369	515	HAKPPGGLGHCSLCPSHYSCIH G*KGPRYVSVSCSRGWKPEAT KAFMW
25920	56288	A	26061	352	2631	
25921	56289	B	26062	10	351	
25922	56290	A	26063	321	537	EPLDTGRGTSHTRACHGVGYW GRDSVRRYT*CK*RINGYSTPT WHMHEYVTNLHIVHMYPRTYS IIKKMSD
25923	56291	A	26064	788	912	VHHLSETRKCLPPAPS*WV TCHHGDCCLPTLRAPQGP
25924	56292	A	26065	1348	1799	
25925	56293	A	26066	606	2219	ATYPSAHYPDHNERGEFLWPSL GLGKELDTFWSSLRVFGSPVSA VSRELVRKFSLGTV DSTGSLP VCGDISPVSDVA/ACTREPLRFR LQVGDRYITLMDLPGVGESGA RDTEYAALYREQLPRDLVLW LIKADDRALTVDEHFYHQVIGE VYRHKVLFVISQSDKAEPTSGG GQLSTAQKQNISRKICLLHELFO PVHPVCAVSVRLQWGLKVMA ERMIKCLPREATSPVVSQ LHP SF RTTVVREQARSDFGETVGAVL DSISAFPLIPAPVRAVIQAVRTT VVSFAASVTLLLLPLRSTPVEKS PTCILPASETFPLLVM LN PVAS LLTLTSPVLDTSCTHSLSAAQP NLIQLSGNNNISFVNRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVYSRRI GHQSPEVTGEAMALTSSQPSC IDDGLVAVNLDTDGLRIGDARQ KAITAGYPVVD TDDKCRIRLR RIRHEQCADENSYQAYNYCRP VGRIRHLCRIRQSM PDATLSRLI
25926	56294	A	26067	543	741	

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25927	56295	A	26068	3	373	VYTGLKPRTIDAQYTPINVV/W KFLSLTHHAYSPLLVVINKAKF DGLSPEFQQALVSSAQEAGNY QRKLVAEDQQKIIDGMKEAGV EVITDLDRKAFSDALGNQVRD MFVKDVPQGADLLKAVDE
25928	56296	A	26069	1	1107	MGAFTGKTVLILGGSRGIGAAI VRRFVTDGANVRFTYAGSKDA AKRLAQETGATAVFTDSADRD AVIDVVRKSGA*ILILKRRSISA FNSRASPKTPIPAFTTRISNAPLL RTTSMTASLSALSVENTAVAPVS CARRLAASFDPA
25929	56297	A	26070	39	254	
25930	56298	A	26071	1432	1845	
25931	56299	A	26072	674	1614	AVIVVAILVSKSTGAWVAFSIR MPSITFSHNSVVAGVASARKDS SPSYGDPLESAIPKLNVKRSRSG LSKSLTLTSCSTIWINWITGQT PLKPCSVTGSVVPKAWRSPSTL TTMTTR*PFTLPA/LDTFISRPAG CTYANECHAPESATIRNDVAAR PCNCAQCAALDCVSVFTIRHS CSSVYSAPGILVAALQAGHKPV ALVGGATGLIGDPSFKAERKL NTEETVQEWVDKIRKQVAPLP DRKNISPADSRLSPDGRYRGYV HPAPPIPDShLRHRCVIYQWR QCLAQFRLNGWAASRSQSICRI GCD
25932	56300	A	26073	1	3476	MSSSCIEEVSPDDNWYRIANE LLSRAGIAINGSAPADIRVKNP FFKRVLQEGSLGLGESYMDGW WECRLDMFFSKVLRAGLENQ LPHHFKDTLRIAGARLFNLQSK KRAWIVGKEHYDLGNDLFSRM LDPFMQYSCAYWKDADNLESA QQA KLK MICEKLQLKPGMRVL DIGCGWGGLAHYMASNYDVS VVGVTISAEQQKMAQERCEGL DVTILLQDYRDLDNQFDRIVSV GMFEHVGPKNYDTYFAVVDR
25933	56301	A	26074	200	1100	
25934	56302	A	26075	1	2061	
25935	56303	A	26076	1	3294	

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25936	56304	A	26077	1	2064	MNYSLKQLKVFVTVAQEKSF RAGERIGLSQSAVSHSVKELEN HTGVRLLDRTTREVVLTDAGQ QLAFRLERLLDELNNTLRDTGR YGATTERSARYSASLPAPTSGR SEPAALVQNSSSQPSSLKENIM KLRSVTYALFIAGLAAFSTFFLA \AQSIIRCGYETSQADSQHSGAK KFNDLLQERPKGELKLLFPDS TLGNAQAMISGVRGGTID\MEM SGSNYFAGLSPVMNLLDVPFLE RDTAHAHKTLDGKVGDDLKAS LEGKGLKVLAYWENGWRDVT NSRAPVKTPADLKGLKIRTNNS PMNIAAFKVFGA\NPI\PMPPAE VYTGLETRTIDAQEHPIINVVWS AKFFEYQKFLSLTHHAYSPLL VINKAKFDGLSPEFQQALVSSA QEAGNYQRKLVAEDQQKIIDG MKEAGVEVITDLDRKAFSDAL GNQVRDMFVKDVPQGADLLK AVDEPGWAERDIWAFAPAFFY PLFISDFNRVRLEFVGHYQDVC EKPASTTLWLDVGRSSGLDLTY QTLNVKNDLSHFPVPFFDPSDN RTNTLPMVFAGAPDVGLQQAS AIVASWFGSRSGWRGQNFVVL YNQLPDRNAIVFATNDKRPDFL RDHPAVKAPVIEMINHPQNPYV KLLVVFGRDDKDLLQAAKGIA QGNILFRGESVVVNEVKPLLPA GSQPVWSSSASESRCCFYA
25937	56305	A	26078	1	480	LGNTKTVKGWLAQLPAKYHQ RATCMFDRHGLLALLAGRFLA FVRTLLPTMAGISGLPNRRFQFF KAKLR\WLS*PTRIAAALAFMP/ FMDDHHPRMQTVILQILQRRG TGDRLKIMVERRYAHVGFQRQ LLDAQVFGVFILNPFQHAANQT EVSLATDQRQ
25938	56306	A	26079	1	2184	



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25939	56307	A	26080	1429	2152	NLFREVVFPTHCPVCGSDVERV EGEAVARCTGALICGAQRKESL KHFVSRRAMDVDGMDKIIDQ LVEKEYVHTPADLFLKLTAGKLT GLERMGPKSAQNVVNALEKAK ETTFARFLYALGIREVGEATAA GLAAYFGTLEALEAASIEELQK VPDVGIVVASHVHNF\LPKKAT AMSSASCWRKVFTGLRRSLSTR KRLTARLLVKPWCLRAASGTP LKRASLLMFSGCFSHTSGLAMY
25940	56308	A	26081	1	2448	
25941	56309	A	26082	125	741	AHLNRTRWKVCWIR*RKISPW AKRNTKTVKG\WLAQLPAKYH QRATCMF\DRHGLLALLAGRFL AFVRTLLPTMAGISGLPNRRFQ FFNWLSGLLWVSVVTSFGYAL SMIPFVKRHEDQCRNGVFGKR KGGIAAALILTRLRRRFVSSWK RFRELRRKSSQADDMNVFGILE DFTHQFIGGAFLRADISGAAKM SCLAKAQASSSMH
25942	56310	A	26083	1066	1359	
25943	56311	A	26084	256	952	RLKRCSTGKSMAVIQDIIAALW QHDFaalADPHIVSVVYFVMF ATLFLengLLPASFLPGDTLLIL AGALIAQGVMNFSGLRIAVLDP RNQVRGGGLSIFKGRWLGPNK TVKG\WLAQLPAKYHQRATCM FDRHGLLALLAGRFLAFVRTLL PTMAGISGLPNRRFQFFNWLSG LLWVSVVTSFGYALSMIPFVKR HEDQVMTFLMILPIALLTAGLL GTLFVVIKKKYCNA
25944	56312	B	26085	1	1290	

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25945	56313	A	26086	1	1839	MRCQNAWWIMQHSSGSERLSS VLLHFRRTNLADSNDRIQYHSL RFFDEDGAQWLVLGDVLNHG PRNALPDGYAPRKVAERLNEV AHKVIAVRGNLRQRVDQMLLI SRAINRLVASNWNRRSAQMRC PISGKNLAWIPVQLPVYWQNN CRLLMRSHRKHGSGTNLPGE LMAIKLIAIDMDGTLLLPDHTIS PAVKNAIAAARARGVNVVLT GRPYAGVHNYLKELHMEQPGD YCITYNGALVQKAAD/GYDDY/ RF/LEKLSREVGSHFHALDRTT LYTANRDISYYTVHEFLRCHQ FPLVVCDDGRMTPRAMFLFSSA HILMPLNYHNSHINTLFPVAGT LMVEPTESESKVELDRFIDAML AIRAEIDQVKAGVWPLEDNPLV NAPHIQSELVAEWAHPYSREVA VFPAALVTGGSRGIGRATALL AQEGYTVAVNYQQNLHAAQE VMNLITQAGGKAFVLQADISDE NQVVAMFTAIDQHDEPLAALV NNAGILFTQCTVENLTAERINR VLSTNVTGYFLCCREAVKRMA LKNNGSGGAIVNVSSVASRLGS PGEYVDYAASKGAIDTLTTGLS LEVAAQGIRVNCVRPGFIYTEM HASGGEAWTRRSR
25946	56314	A	26087	2	1275	VNFSPKSSQIHHALRTVAGRFA VKSIDYFWHDSCNASKRFHIWE SIMLELLFVIGYLVMLMVTGVS LLGIIAALVVATAIMFLGGMLA LMIKLLPWLLLAISVVWVIKAI KAPKVPKYQRYDRWQLAVRRS PLLPDHTISPAVKNAIAAARAR GVNVVLTGTGRPYAGVHNYLKE LHMEQPGDYCITYNGAL/VYRK AAGWLAPLAAKLLKLMDLI GFLEKLSREVGSHFHALDRTTL YTANRDISYYTVHESFVATIPLV FCEAEKMDPNTQFLKVMIDE PAILDQAIARIPQEVKEKYPVLK APNLQQPHGSSGSSFHREIFFSS RSEDKRRGGLVVSGISLLVSSA GPWVRNANEPLGQLKTWFSLS HTLTLYTRAPACRLTSTQTEP RARPCLSPLESSEPRDRSLTPRLG QRFIYLAVQ
25947	56315	B	26088	1	1509	
25948	56316	A	26089	1	1323	

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25949	56317	B	26090	1	5073	
25950	56318	A	26091	249	531	CWAMRMDSKVGVIPTIRMWSA SGPFAMGTLVPTFAAVTDIPTK SVTTCLRQICERWQAPSTR*SRF ASLSQPAPRFTSPITLALVLLP ARRC
25951	56319	A	26092	3	1038	LVLFGVAETYPVANDFAAGAG AYVRGRYAAGVRAWPTIITRK TMKTLVVALGGNALLQRGEAL TAENQYRNIAAVPALARLARS YRLAIVHGNGPQVGLLALQNL AWKEVEPYPLDVLVAESQGM GYMLAQSLSAQPMPPVTTVL TRIEVSPDDPAFLQPEKFIGPVY QPEEQEALAAAYGWQMKRDG KYLRVVASPPQRKILDSEAIEL LLKEGHVVICSGGGGVPTND GAGSESVIHKDLAAALLAEQIN ADGLVILTDADAVYENWGTPQ QRAIRHATPDELAPFAKADGSM GPNVTA VSGYVRSPVQMHHHQ FQPVIHIA TNQIDHHRRIHHWL
25952	56320	A	26093	1	3639	MKRLIVGISGASGAIYGVRLQ VLRDVTDIETHLVMSQAARQT LSLETDFSLREVQALADVTHDA RDIAASISSGSFQTLGMVILPCSI KTLSGIVHSYTDGLLTRAADV LKERRPLVLCVRETPLHLGHLR LMTQAAEIGGNTGEIDEEEL LLYAIKGNVFNFTILHLPVA VQNDTIDFYQMFARIWSSHPQ WLTLYLAQHRAVIIPDDAKLHR NLLRWYSAGRLDIPELLDYAQS WRETEPDNEDAPY

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25953	56321	A	26094	1	1260	AWARQDRRLSVKQWGKPPVD ETIPAKEQVRILRKLFDRYYGE VAGRGDGFCSPHVARYVGRVA G*RPCRLGPGHPTNRTPFVAPL LEALDIKAYFSVVIGGDDVQNK KPHPDPLLLVAERMGIAPQQML FVGDSRNDIQAAGAAGCPSVG LTYGYNYGAEIDLSPDVIYQSI NDLLPALGLPIAKIRNRKMTKPI VFSGAQPSGELTIGNYMGCTEA DRQFAFNFNFLIQLLTNGGP DRLGTTTPAGYTDLLVNYTYRI AFEGGGGQDFGLAAAIATLIFL LVAIMFPLLMVVAISLRQGNFA TGSLIPEQISWDHWKLALGFSV EQADGRITPPFPVLLWLWNSV KVAGISAIGIVALSTTCAYAFAR MRFPGKATLLKGMLIFQMFA VLSLVALYALFAPRVRAALCY
25954	56322	A	26095	1	3240	
25955	56323	A	26096	494	792	ATRLRHGVTSVGGDGLQLTV MDKLDVILLMSV/NPGFGGQSFI PQTLDKL/REVRRRIDESGFDIR L/EVDGGVKVNNIGEIAA/AGA DMFVAGSAIFDQPDAR
25956	56324	A	26097	1624	2390	RTSERRWHAKALLKLFSAHHA GFVCKKEEEERLATGKVGWLP VETLLAQQHIEGHYQVDPSLFK PNADCPVRVSGMSMKDIGIMD GDLLAVHKTQDVRNDPLLVP FTLIREGKLAANWPLEQDELLT RLQKSCDMTQVSADYNALFIG DECAVPPYRSAWVEGATEAEV RAFLSERGMPLADTPADHIGTL LLAASWLEDQSTEDESEALETL FKRGA/LPKSLCLWGKAPAPHG SPVGGFSKGPKTWAPHEGAS
25957	56325	B	26098	1	534	
25958	56326	A	26099	67	399	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25959	56327	A	26100	8	1016	PESRRKAVMTQPVLDIQQHLHS FPGFNGDVHALNNVSLQINRGE IVGLVGESGSGKSVTAMLIMRL LPTGSYCVHRGQISLLGEDVLN AREKQLRQWRG/ARVAMIFQEP MTALNPTRRIALQMMDVIRHH QPISRREARAKAIDLLEEMQIPD AVEVMSRYPFELSGGMRQRM IALAFSCEPQLIIADEPTTALDVT VQLQVLRLLKHKARASGTAVL FISHDMAVVSQLCDSVYVMYA GSVIESGVTADVIHHPHPYTIG LLQCAPEHGVP RQLLP AIPGTV PNLTHLPDGCAFRDRCYAAGA QCENVPALTACGDNNQR\GAC WYPQQEVISV
25960	56328	A	26101	3	102	ISRLNTQQHFG*RTRQISPHSPQ GCSRCPLHS
25961	56329	A	26102	290	490	SSLNSCMAVWDKTRLIRQ*LV MWSY*SPSPCR*PAGYRHMKL RSTSLVLSTPSRLFLA VIPPVVVI
25962	56330	A	26103	1	3255	
25963	56331	A	26104	119	634	
25964	56332	A	26105	1640	1770	HLDSNRRVHDSTCNWCCNLS* QRLLWSG*WSELCCSVPRQKR A

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25965	56333	A	26106	281	2108	RESLKQKVGGRPQLSPFPDDS WALDPGGGRARETPRGVSNAT KEPISVAQHGN/GGDKEIRRELK YYAHLGRRLKDWSGIPRYHGT VETDCGTGYVYDVIAFDGKP SITLTEFAEQCRYEEDIAQLRQL LKQLKRYLQDNRIVTMSLKPKQ NILCHRISESEVIPVCDNIGEST LIPLATWSKWCCLRKQERLWK RFIAQPALAIALQKDLQPQATE ASGAENMASIASGNIARTDPDM LSIPLSKKICCFGDRHIEIPETIDQ PVRFWVL TGPVVDMMGIYACYL SSPQWGWYAERDAEINETVR REVEELRQASETDLQPGTIEYE RHRLTRAQADAQELKNARDSA EVVETAFACTFVLSRIAGEIASIL DGIPLSVQRRFPELENRHVDFL KRDIIKAMNKAALDELIPGLL SEYNRADRQYAGGSRVAARFA ASPRVAVLSVITGLIPRHVCAPY LLCGDPCCLSTPEDMTPRFRY AVRSGNRSTPGLDHRCDACQR SAYELADLRCRPPSTLFLPEA DKNDFSDALPAVADAMYAAP RRKAAPSKPEKAVVSPLRSVRK ARHGVSCLRPDQYAVRNLP YRSCSSPDLQFMVWCA
25966	56334	A	26107	1	2880	
25967	56335	B	26108	61	5101	
25968	56336	A	26109	80	561	IRPLPRFKTESRSLPGCLQPGT FLWSRNRRLVGFPSMNGEDMG LLFLCSEWERSSEGWLCNREGG SGHSIEPHCCTFLHLTHRSLAFS LLAGVSTCASSCKCKE/CKCTS CKKSECGAISRNGLWLKVGR EPKAVPEVRASGEPAFLCPCRL SLPV
25969	56337	A	26110	1	277	
25970	56338	A	26111	902	1006	
25971	56339	A	26112	2	1265	
25972	56340	A	26113	409	525	
25973	56341	A	26114	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL
25974	56342	A	26115	3	71	
25975	56343	A	26116	1	1212	

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25976	56344	A	26117	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLDES GFFWAALHVLRWG YGPGRLPFNRI GLIRRI TRRIRQR LLFGLVTFILLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25977	56345	A	26118	5	402	EIFS VVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEG DWLPETVISAF NMPSSLSLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWL VFTLFHRI
25978	56346	A	26119	48	219	PETCGHLWAYVWPSCAAVGL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25979	56347	A	26120	1	912	

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25980	56348	A	26121	1	1857	MRVCARACVTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPALLLAFLCSTSPGF GDPDGLGVIA YQDTPVRNAAT AISELNALAVKGVILTGDNPRA AAAAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAISNVSPG CILRTPNCRRGFPISTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHR
25981	56349	A	26122	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTA TQNLDIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVVFDADYL YELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHFPPLSCVQSDPDAEPYLAR CGYAGNFMESPRSLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRVPDPVELVLV AAEFITPGDPTPRLHSGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHDFDVRQL
25982	56350	A	26123	16	543	
25983	56351	A	26124	1	3387	